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JUL 02 SCISFARCH enhanced with complete author names
JUL 02 CAPCAPIUs enhanced with utility model patents from China
JUL 10 CAPIUs enhanced with tutility model patents from China
JUL 18 CAPCAPIUs enhanced with nurility model patents from China
JUL 18 CAPCAPIUS patent coverage enhanced
JUL 30 CAPPULL/USPATZ enhanced with IPC reclassification
USPATPULL/USPATZ enhanced with IPC reclassification
CAS REGISTRY enhanced with new experimental property tags
11 AUG 06 BEILSTBIN updated with new compounds
12 AUG 05 PSTA enhanced with new thesaurus edition
CAPCAPIUS enhanced with additional kind codes for granted
patents CA/CAplus enhanced with additional kind codes for granted patents
CA/CAplus enhanced with CAS indexing in pre-1907 records
Pull-text patent databases enhanced with predefined patent family display formats from IMPADOCDS
USPATOLD now available on STN
CAS REDISTRY enhanced with additional experimental appetral property data
STN Anavist. Version 2.0, now available with Derwent Morld Patents Index
PORIS renamed to SOFIS
INPADOCDS enhanced with monthly SDI frequency
CA/CAplus enhanced with printed CA page images from
1967-1998
CAplus coverage extended to include traditional medicine patents SEP 07 NEWS 18 NEWS 22 SEP 17

NEWS EXPRESS 05 SEPTEMBER 2007: CURRENT WINDOMS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0¢(END) AND V6.0J¢(JP), AND CURRENT DISCOVER FILE IS DATED 05 SEPTEMBER 2007.

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<12/04/2007>

Erich Leese

10/513699

G1 C.H.Ak

G2 X, Ak, CF2, CF3

G3 X.CN

G4 C.O. Ak, CF3 . X

G5 X, Me, CH2, CH, Et

Structure attributes must be viewed using STN Express query preparation.

-> 8 11 full
PULL SEARCH INITIATED 15:48:01 FILE 'REGISTRY'
PULL SCREEN SEARCH COMPLETED - 8971 TO ITERATE

100.0% PROCESSED 8971 ITERATIONS SEARCH TIME: 00.00.01

0 ANSWERS

O SEA SSS PUL L1

\*> file reg
COST IN U.S. DOLLARS

SINCE FILE TOTAL

Erich Leese

FULL ESTIMATED COST

<12/04/2007>

FILE 'REGISTRY' ENTERED AT 16:01:11 ON 18 SEP 2007 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELD USAGSTERMS" FOR DETAILS. COPYRIGHT (C) 2007 American Chemical Society (ACS)

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STRUCTURE FILE UPDATES: 17 SEP 2007 HIGHEST RN 947369-26-8
DICTIONARY FILE UPDATES: 17 SEP 2007 HIGHEST RN 947369-26-8

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

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=> file reg COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST

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STRUCTURE FILE UPDATES: 17 SEP 2007 HIGHEST RN 947369-26-8
DICTIONARY FILE UPDATES: 17 SEP 2007 HIGHEST RN 947369-26-8

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http://www.cas.org/support/stngen/stndoc/properties.html

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L1 STRUCTURE UPLOADED

"> d 11 L1 HAS NO ANSWERS L1 STR

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http://www.cas.org/support/stngen/stndoc/properties.html

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=> d 13 L3 HAS NO ANSWERS L3 STR

G2 X.Ak.CF2.CF3

G3 X,CN

G5 X, Me, CH2, CH, Et

Structure attributes must be viewed using STN Express query preparation.

=> 8 13 full
PULL SEARCH INITIATED 16:01:40 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 416 TO ITERATE

100.0% PROCESSED 416 ITERATIONS SEARCH TIME: 00.00.01

4 ANSWERS

<12/04/2007>

Erich Leese

4 SEA SSS FUL LE

#> file caplus
COST IN U.S. DOLLARS

SINCE FILE FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 16:01:46 ON 18 SEP 2007 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGSTERMS" FOR DETAILS. COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 18 Sep 2007 VOL 147 ISS 13 FILE LAST UPDATED: 17 Sep 2007 (20070917/ED)

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http://www.cas.org/infopolicy.html

-> s 14 full L5 1 L4

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION RUMBER: 2005:158653 CAPLUS DOCUMENT NUMBER: 142:261560

142:261560 of N-phenyl-piperazine derivatives and methods of prophylaxis or treatment of 5-HT2C receptor associated diseases Smith, Brian, Tsai, James, Chen, Rita Arena Pharmaceuticals, Inc., USA PCT Int. Appl., 115 pp. CODEN: PIXXD2 Patent English

INVENTOR(S): PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE:

PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE A1 : AM, AT, CU, CZ, HR, HU, LT, LU, PG, PH, WO 2004-US19540 BB. BG. BR. BW, BY, DZ. BC. EP. EG. E9, IS, JP. KE. KG. KP, MG. MK, MN, MW, MX, RU, SC, SD, SE, SG. WO 2005016902

W: AE, AG, AL,
CN, CO, CR,
GE, GH, GM,
LK, LR, LS,
NO, NZ, OM. 20040617 BZ, CA, CH, FI, GB, GD, KR, KZ, LC, MZ, NA, NI, SK, SL, SY, 20050224 20050224 AU, AZ, BA, DE, DK, DM, ID, IL, IN, LV, MA, MD, PL, PT, RO,

<12/04/2007>

10/513699

4-(tert-butoxycarbonyl)-(R)-2-methylpiperazine. Intracellular IP3 accumulation assay (8C50 \* 8.0 nM against the 5-HT2C receptor) and inhibition of food intake in food-deprived rats (see chart) were used to test the bioactivity of II. Certain compds, are selective for the 5-HT2C receptor compared to the 5-HT2A and 5-HT2B receptors; for example II has an EC50 value of 559 nM against the 5-HT2A receptor and is essentially inactive against the -5-HT2B receptor. I are useful for the prophylaxis or treatment of 5-HT2C receptor associated diseases or disorders, such as, obesity, Alzheimer Disease, erectile dysfunction and related disorders. 4845741-28-8P, (R)-1-(4-Fluorobiphenyl-3-yl)-2-methylpiperazine hydrochloride 845742-49-9p, (8)-1-(4-Fluorobiphenyl-3-yl)-2-methylpiperazine 845742-45-2P, (R)-1-(4-Fluorobiphenyl-3-yl)-2-methylpiperazine RL: PAC (Pharmacological activity), 9PN (Synthetic preparation), THU (Therapeutic use), BIOL (Biological study); PREP (Preparation), USES (Uses)

(drug candidate; preparation of N-phenylpiperazines as 5-HTC receptor modulators)

845741-28-8 CAPLUS
Piperazine, 1-(4-fluorol1, 1'-biphenyl)-3-yl)-2-methyl-, hydrochloride, (2R)-(SCI) (CA INDEX NAME)

Absolute stereochemistry.

●x HCl

Piperazine, 1-(4-fluoro[1,1'-biphenyl]-3-yl)-2-methyl-, hydrochloride, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

TJ. TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, RN: BM, OH, OM, KE, LS, MM, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, EE, ES, PI, PR, GS, OR, RU, IE, IT, LU, MC, NL, PL, PT, RO, BN, TN, BP, BJ, CP, CG, CI, CM, GA, ON, GQ, GM, ML, MR, BN, TD, TG SN, TD, TO

AU 2004265243 Al 20050224 AU 2004-265243 20040617
CA 2529750 Al 20050224 CA 2004-2529750 20040617
R: AT, BE, CH, DE, DK, ES, PR, DB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LU, FI, RO, MK, CV, AL, TR, BG, CZ, EE, HU, PL, SK, HR
CN 1809545 A 20050612 BP 2004-7011661 20040617
JP 2007523661 T 20076023 JP 2004-80017001 20040617
JM 2005PA1365 A 20050629 BR 2004-11661 20040617
JM 2005PA1365 A 20060629 IN 2005-11463 20051208
IN 2005PA1365 A 20076062 IN 2005-11403 20051208
JM 2005PA1365 A 20076062 IN 2005-11403
JM 2005PA1365 A 20076062 IN 2005-11403
JM 2005PA1365 A 20076062 IN 2005-11403
JM 2005PA1365 A 20076062 PP 20030620
JM 2005PA1365 A 20076062 PP 20030620
JM 2005PA1365 A 20076062 PP 20030620 WO 2004-US19540 CASREACT 142:261560; MARPAT 142:261560 OTHER SOURCE(S):

Title compds. I [wherein R1 = H, alkyl; R2 = alk(en)yl, haloalkyl; R3, R4, R5, R6, R7 = independently H, acyl, acyloxy, acylthioxy, alk(en)yl, halo/carbo/alkoxy, alkylcarboxamido, halo, 0H, SH, Ph, halo/alkylsulfinyl, alkylsulfonamido, halo/alkylsulfonyl, halo/alkylthio, NH2, dl/alkylsulfino. CN, haloalkyl; and their pharmaceuticnly acceptable salts, solvates or hydrates; with the proviso that certain compds. are excluded were prepared as 5-HT2 receptor modulators, in particular agonists. Thus, IT-sHCl was prepared by Pd-coupling of 2-Bromo-4-chloro-1-fluorobenzene with

<12/04/2007>

Erich Leese

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845742-44-1 CAPLUS Piperazine, 1-(4-fluoro[1,1'-biphenyl]-3-yl)-2-methyl-, [2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

845742-45-2 CAPLUS Piperasine, 1-(4-fluoro[1,1'-biphenyl]-3-yl)-2-methyl-, (28)- (9CI) (CA HDDEN NAME)

Absolute stereochemistry.

REFERENCE COUNT:

<12/04/2007>

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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-> file reg COST IN U.S. DOLLARS SINCE FILE TOTAL SESSION ENTRY 9.97 FULL ESTIMATED COST 364.28 SINCE FILE ENTRY -0.78 DISCOUNT AMOUNTS (POR QUALIFYING ACCOUNTS)

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STRUCTURE UPLOADED

-> d 16 L6 HAS NO ANSWERS L6

. STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT .

Structure attributes must be viewed using STN Express query preparation.

-> 8 16 full FULL SEARCH INITIATED 16:08:30 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 602595 TO ITERATE

100.0% PROCESSED 602595 ITERATIONS SEARCH TIME: 00.00.05

1347 ANSWERS

1347 SEA SSS PUL L6

\*> file caplus COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY 172,10 SESSION 536.38 FULL ESTIMATED COST SINCE FILE TOTAL SESSION -0.78 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) CA SUBSCRIBER PRICE

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US 1999-362837 US 2000-627886 US 2001-989086 WO 2002-US36953 US 1998-10320 AU 2002-352772 US 2004-487168 A2 19990728 B2 20000728 B2 20011121 W 20021113 B2 19980121 A3 20021113 A1 20041007

OTHER SOURCE(S):

MARPAT 142:355256

Therapeutically effective compds. I [Z = (un)substituted heterocyclic ring fused to one or more carbocyclic aromatic rings; n = 1-4; M = NR2, CR1R2, R1 = H, OH, N3, etc.; R2 = OH, halo, acyl, aryl, etc., R70, R71 = H, OH, N3, etc.; R72 = N7, halo, etc.] and II [Z, n are defined as above; R2 = OH, halo, acyl, aryl, etc.] were prepared for treatment of diseases associated with aberrant leukocyte recruitment and/or activation (no data). I and II displayed chemokine binding activities with ICSO values ranging from < 1 µM to < 1000 µM. Thus, the (((1)benzoxepino12,3-b)pyridinylidene)propylipiperidinol III was prepared in three steps by reaction of 5.11-dihydro-7-methoxy(1)benzoxepino12,3-b)pyridin-5-one with cyclopropylmagnesium bromide in THF, followed by ring cleavage-dehydration-bromination with HBr, and addition of 4-(4-chlorophenyl)-4-hydroxypiperidine to the bromide in DMP. Major and minor isomers were separated The pharmaceutical compns. comprising the compound I or II is disclosed. 849105-37-3P 849105-87-4-4P 849105-97-9P RL: PAC (Pharmacclogical activity); SPM (Synthetic preparation); THU (Therapeutic use): BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of tricyclic piperidinols and pyrrolidines as chemokine receptor antagonists for treatment of diseases associated with aberrant leukocyte recruitment and activation)

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FILE COVERS 1907 - 18 Sep 2007 VOL 147 ISS 13 FILE LAST UPDATED: 17 Sep 2007 (20070917/ED)

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=> 8 17 full L8 201 L7

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L9 ANSWER 1 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
1TITLE: 142:355256

INVENTOR(S): 142:355256

Preparation of tricyclic-substituted piperidinols and analogs as chemokine receptor antagonists
Luly, Jay R., Nakasato, Yoshisuke, Ohshima, Etsuo, Harriman, Geraldine C. B., Carson, Kenneth O., Ghosh, Shomir, Elder, Amy M., Mattia, Karen M.
USA
U.S. Pat. Appl. Publ., 194 pp., Cont.-in-part of U.S.
Ser. No. 989,086, abandoned.
CODEN: USAKCO
DOCUMENT TYPE: Patent
LANGUAGE: 174

PAMILY ACC. NUM. COUNT: 7

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	TENT						DATE				ICAT					ATE		
	2005										004-					0041		
US	7186	729			B2		2007	0306										
US	6613	905			B1		2003	0902		US 1	998-	1488	23		1.	9980	904	
US	6329	385			B1		2001	1211		US 1	999-	2351	02		1	9990	121	<
US	2002	1199	73		Al		2002	0829		US 1	999-	3628	37		1	9990	728	<
US	6509	346			B2		2003	0121										
บย	2002	1691	55		Ai		2002	1114		US 2	001-	9890	86		2	0011	121	<
WO	2003	0459	12		A2		2003	0605		NO 2	002-1	US369	953		2	0021	113	
WO	2003	04594	12		A3		2003	0912										
	W;	AB,	AG,	AL,	AM,	AT,	ΑU,	AZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,	
		co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	BC,	EE,	ES,	PI,	GB,	GD,	OE,	GΗ,	
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	ΚZ,	LC.	LK,	LR,	
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MΧ,	MZ,	NO,	NZ,	OM,	PH.	
		PL,	PT,	RO,	RU,	sc,	SD,	SE,	SG,	SI,	ΒK,	SL,	TJ,	TM,	TN,	TR.	TT,	
					US,													
	RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ.	υσ,	ZM,	ZW,	AM,	AZ,	BY,	
		KG,	ΚŻ,	MD,	RU,	TJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	
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										US 1	999-	2351	02		A2 1	9990	121	

<12/04/2007>

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2-Piperazinecarboxamide, 1-(4-chlorophenyl)-4-[3-[7-(1-hydroxy-1-methylethyl)(1)benzoxepino[3,4-b]pyridin-5(1)H)-ylidene]propyl|-(9CI)(CA INDEX NAME)

849105-74-4 CAPLUS
2-Piperazinecarbonitrile, 1-(4-chlorophenyl)-4-{3-{7-{1-hydroxy-1-methylethyl} [1]benzoxepino{3,4-b}pyridin-5(11H)-ylidenelpropyl}- (9CI) (CA INDEX NAME)

#### 10/513699

849105-75-5 CAPLUS
2-Piperazinecarboxylic acid, 1-(4-chlorophenyl)-4-(3-[7-(1-hydroxy-1-methylethyl)(1)benzoxepino[3,4-b]pyridin-5(11H)-ylidene)propyl]-, methyl ester (9CI) (CA INDEX NAME)

849105-85-7 CAPLUS [1]Benzoxepino[3,4-b]pyridine-7-methanol, 5-[3-[(35)-4-(4-chlorophenyl)-3-methyl-1-piperazinyl]propylidene]-5,11-dihydro-u,u-dimethyl-(9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

849105-86-8 CAPLUS [1] Benzoxepino [3,4-b] pyridine-7-methanol, 5-{3-[(3R)-4-(4-chlorophenyl)-3-methyl-1-piperaziny}] propylidene]-5,11-dihydro- a,a-dimethyl-

<12/04/2007>

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#### 10/513699

(preparation of tricyclic piperidinols and pyrrolidines as chemokine receptor antagonists for treatment of diseases associated with aberrant leukocyte recruitment and activation)
55117-80-1 CAPUUS
Piperatine, 1-(4-chlorophenyl)-2-methyl(9CI) (CA INDEX NAME)

849106-48-5 CAPLUS
1-Piperazinecarboxylic acid, 4-(4-chlorophenyl)-3-methyl-,
1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

849106-90-7 CAPLUS 1.3-Piperazinedicarboxylic acid, 4-(4-chlorophenyl)-, 1-(1,1-dimethylethyl) 3-methyl ester (9CI) (CA INDEX NAME)

849106-91-8 CAPLUS 2-Piperazinecarboxylic acid, 1-(4-chlorophenyl)-, methyl ester (9CI) (CA INDEX NAME)

10/513699

(9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown

849105-87-9 CAPLUS
2-Piperazineacetic acid, 1-(4-chlorophenyl)-4-(3-[7-(1-hydroxy-1-methylethyl) [1]benzoxepino[3,4-b]pyridin-5(1]H)-ylidene]propyl]-, methyl ester (9CI) (CA INDEX NAME)

55117-80-1P, 1-(4-Chlorophenyl)-2-methylpiperaxine 849106-48-5P, 4-(4-Chlorophenyl)-3-methylpiperaxine-1-carboxylic acid tert-butyl earce 849106-90-7P 849106-91-8P 849107-16-0P 849107-17-1P 849107-18-2P RL: RCT (Reactant), BPM (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

<12/04/2007>

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10/513699

849107-16-0 CAPLUS 1-Piperazinecarboxylic acid, 4-(4-chlorophenyl)-3-methyl-, 1.1-dimethylethyl ester, (38)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

849107-17-1 CAPLUS 1-Piperazinecarboxylic acid, 4-(4-chlorophenyl)-3-methyl-, 1,1-dimethylethyl ester, (3R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

849107-18-2 CAPLUS
2-Piperazineacetic acid, 1-(4-chlorophenyl)-4-|(1,1-dimethylethoxy)carbonyl)-, methyl ester (9CI) (CA INDEX NAME)

THERE ARE 151 CITED REFERENCES AVAILABLE FOR THIS RECORD, ALL CITATIONS AVAILABLE IN THE REFORMAT

L9 ANSHER 2 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 2004:485162 CAPLUS COPUMENT NUMBER: 141:38534

TITLE:

141:38512 CAPUS
141:38512 CAPU INVENTOR(S):

PATENT ASSIGNEE(S): SOURCE:

PATENT NO. KIND DATE APPLICATION NO.	DATE
US 6750228 B1 20040615 US 2000-570731	20000512
US 2001014688 A1 20010816 US 1998-191129	19981113 <
US 2001039287 A1 20011108 US 1999-256948	19990224 <
CA 2372934 A1 20001123 · CA 2000-2372934	20000515 <
WO 2000069821 A1 20001123 WO 2000-US6719	20000515 <
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY,	CA, CH, CN, CR,
CU. CZ. DE. DK. DM. DZ. EE, ES. FI, GB. GD. GE.	GH, GM, HR, HU,
ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,	LR, LS, LT, LU,
LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT,	RO, RU, SD, SE,
SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US,	
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT,	BE, CH, CY, DE,
DK. ES. FI. FR. GB. GR. IE. IT. LU. MC. NL. PT.	SE, BF, BJ, CF,
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG	
EP 1183239 A1 20020306 EP 2000-930088	20000515 <
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU,	NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO	

<12/04/2007>

Brich Leese

IT

CHICH, C.tplbond.C, N:N, NHNN, NHCOO, (un) substituted CONN, NHCO, etc., R - alkylene, arylene, heteroarylene, etc., with provisos; E \* bond, CONN, NHCO, CO., SO2, NHSO2, SO2NN, S, etc., Y2 \* absent, H, alkyl, alkoxy, aryl, aryloxy, heteroaryl, etc.; to a host having a condition associated with pathol. matrix metalloprotease (MMP) activity. I exhibit excellent inhibitory activity of one or more MMP enzymes, such as MMP-2, MMP-9 and MMP-11, while exhibiting substantially less inhibition of (at least) MMP-1 (biol. data given). Also disclosed are metalloprotease inhibitor compds. having such selective activities, processes for manufacture of such compds., and pharmaceutical compns. using such inhibitors. The compds. are potentially useful against a wide variety of conditions, notably as antiostecarthritic, antiangiogenesis, and antivor agents. Over 900 example compds. are listed, most with supporting phys. data, and many with synthetic details. E.g., a multi-step synthesis of the compound II.2HCl was given.

synthetic details. E.g., a multi-step synthesis of the composit fi. given. 308821-73-0P RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

(Inerapelitic use); plot (shological study); PREP (Preparation) Uses (Uses) - (drug candidate; preparation of aromatic sultone hydroxamic acids as metalloprotease inhibitors) 308821-73-0 CAPUS - (APUS 21-73-0 CAPUS - (APUS 21-73-0 CAPUS - (APUS -

:- мн- он

IΤ

35947-12-7, 1-(4-Methoxyphenyl)-2-methylpiperazine
RL: RCT (Reactant) RACT (Reactant or reagent)
(starting material, preparation of aromatic sulfone hydroxamic acids as
metalloprotease inhibitors)
35947-12-7 CAPLUS
Piperazine, 1-(4-methoxyphenyl)-2-methyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

<12/04/2007>

THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS Erich Leese

10/513699

HU 200201680 BR 2000010562 JP 2003520196 AU 766792 NZ 515217 US 2002177588 20020928 20030610 20030702 20031023 20040430 20000515 <--20000515 20000515 20000515 HU 2002-1680 BR 2000-10562 JP 2000-618238 AU 2000-47970 20010917 <--20021128 US 2001-954451 US 2002177588
US 6750233
ZA 2001009006
NO 2001005543
MX 20017A11569
US 2003073718
US 6683093
US 2004209914
US 2004235818
PRIORITY APPLN. INFO: 20040615 20040615 20021202 20020110 20050620 20030417 20040127 20041021 20041125 20011031 <--20011113 <--20011113 20011121 ZA 2001-9006 NO 2001-5543 MX 2001-PA11569 US 2001-989943 US 2003-73040]
US 2003-73040]
US 2003-747786
US 1997-660377
US 1998-1010809
US 1999-311037
US 1998-19501P
US 1998-19501P
US 1998-19501P
US 1998-195119
US 2000-570731
US 2001-989943 20031208 20031229 19971114 19980804 19980918 D2 19990224 A2 19990514 P 19980806 B2 19981105 B2 19981113

MARPAT 141:38534

A treatment process is disclosed that comprises administering an effective amount of an aromatic sulfone hydroxamic acid I [N=H], cation, certain acyl or thioacyl groups, m, n, p=0-2; (m-n,p)=1 to 4, Z=(un)substituted NH; X, Y=(un)substituted  $CH_{21}$ , A=bond, O, O, (un)substituted NH, O, O, O, O. AB

<12/04/2007

10/513699

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

AUTHOR (S):

ANSWER 3 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
SSION NUMBER: 2003;551964 CAPLUS
E: Customization of a commercially available prepare scale
SFC system to provide enhanced capabilities
OR(S): Olson, Jeff, Pan, Jeff, Hochlowski, Jill; Searle,
Phillp, Blanchard, Dave
ORATE SOURCE: Abbot Laboratories, IL, USA
JALA (2002), 7(4), 69-74
CCE: CODEN; JALIPO, ISSN: 1535-5535
MEMORY TYPE: Association for Laboratory Automation CORPORATE SOURCE: SOURCE:

PUBLISHER: DOCUMENT TYPE: LANGUAGE: AB Preparati

MEMORY TYPE: Journal
UAGE: English
Preparative Scale Supercrit. Fluid Chromatog, is emerging as a powerful alternative to HPLC for the purification and separation of complex chemical

alternative to NPLC for the purification and separation of complex chemical tion mixts. Advantages include greatly reduced solvent usage (and thus lover cost and environmental impact). higher throughput, and in some cases higher resolution While there are come available prepare SPC instruments, none currently offer all the features desired by many medicinal chemists engaged in the drug discovery process. These include: the ability to collect an unlimited number of fractions per sample with high recovery and negligible carryover, fully automated capacity to collect assertal hundred fractions, and the ability to collect fractions into the same disposable test tubes and racks which are already employed in HPLC. This article describes the customisation of a preparatory scale SPC system purchased from Berger Instruments, Inc., Newark, DE. (a subsidiary Mettler-Toledo International, Inc., of Oreifensee, Switzerland) in order to provide these capabilities.

19947-11-6. 1-(4-Methylphenyl)-2-methylpiperazine
RL ANT (Analyte); PUR (Purification or recovery); ANST (Analytical chromatog) (GPC) system to provide enhanced capabilities)

15947-11-6. CAPLUS

Piperazine, 2-methyl-1-(4-methylphenyl)- (CA INDEX NAME)

17

THERE ARE 7 CITED REPERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT REFERENCE COUNT.

L9 ANSWER 4 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 2002:946267 CAPLUS

<12/04/2007> Erich Leese DOCUMENT NUMBER:

138:24727
Preparation of 2-{(piperazinocarbonylmethyl)aminocarbo nyllquinolines as platelet adenosine diphosphate receptor antagoniats Bryant Judi A., Buckman, Brad O., Islam, Imadul, Bryant Judi A., Buckman, Brad O., Islam, Imadul, Wohan, Raju Morrissey, Michael M., Wei, Guo Pin, Xu, Wei; Yuang, Shendong Schering Aktiengesellschaft, Germany PCT Int. Appl., 208 pp. CODEN: PIXXD2
Patent English
1 INVENTOR (S):

PATENT ASSIGNEE(S):

DOCUMENT TYPE: LANGUAGE: PAMILY ACC. NUM. COUNT: PATENT INPORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE 20020606 <--JP 2003-501845 US 2004-947579 JP 2004532886
US 2005038007
US 7026323
US 2005065163
US 6995156
US 2006135532
US 7176207
PRIORITY APPLN. INPO.: 20050217 20060411 20040922 20050324 20060207 20060622 20070213 US 2004-947635 US 2006-347768 20060202 US 2001-296498P US 2002-163742 WO 2002-US17821 20010606 20020606

OTHER SOURCE(S); MARPAT 138:24727

<12/04/2007>

Erich Leese

US 2004-947579

A3 20040922

By employing yeast enzymes, natural amino acids and Jacobsen's catalyst as sources of chirality, pyrazolo[1,5-a]pyridine deriva. with Central and planar chirality were prepared as analogs of the dopamine D4 receptor ligand FAUC 113. In vitro binding expts. displayed enhanced D2 and D1 affinity for both enantiomers of the [2.2]paracyclophane derivative The C-methylpiperazine (8)-1 revealed excellent D4 selectivity. 511255-13-3P 511255-27-9P
RL: PAC (Pharmacological activity): SPN (Synthetic preparation); BIOL (Biological study): PREP (Preparation) (preparation and activity of analogs of the dopamine D4 receptor ligand FAUC 113 with planar and central chirality)
511255-13-3 CAPLUS
Pyrazolo[1,5-a]pyridine, 3-{{(3S)-4-(4-chlorophenyl)-3-methyl-1-piperazinyl]methyl}. (SCI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

<12/04/2007>

S11255-27-9 CAPLUS
Pyrazolo(1,5-a|pyridine, 3-[|(3R)-4-(4-chlorophenyl)-3-methyl-1piperarinyllmethyll- (9Cl) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

511254-97-0P 511255-00-8P 511255-18-8P 511255-22-4P

SILE RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and activity of analogs of the dopamine D4 receptor ligand FAUC

Erich Leese

10/513699

The title compds. [I, a, b = 1-4, A = CH, N, Rl = H, alkyl, aryl, etc.; R2 = H, alkyl, aryl, etc.; R3 = H, alkyl, OH, etc.; R4 = H, alkyl, alkoxy, etc.; R6 = H, alkyl, hydroxyalkyl, etc.; R6 = NRTCO, CONR7; R7 = H, alkyl, carboxyalkyl, alkoxycarbonylalkyll, useful as inhibitors of platelet aggregation and thrombus formation, were prepared and formulated. Thus, amidation of 7-methyl-4-hydroxy-2-carboxyquinoline with 4-ethoxycarbonyl-1-[1-amino-3-(1,1-dimethylethoxycarbonyl)propyl]carbonylp iperaxine (preparation of both reactants given) afforded 684 I [R1 = COZET, R2 tert-BuOCOCH2CH2; R3 = OH; R4 = 7-Me; R5 = H; R6 = NNCO, A = N). The Compds. I demonstrated their ability to inhibit the binding of (33F)-2-methylthio-ADP binding to the human platelet ADP receptor and the rat platelet ADP receptor.
478004-45-4P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Usea) IT

(Usea)
(preparation of 2-{(piperaxinocarbonylmethyl)aminocarbonyl|quinolines as platelet ADP receptor antagonists)
47804-45-4 CAPLUS
1-Piperaxinepentanoic acid, 4-(3-chlorophenyl)-y-{[(4-methoxy-2-quinolinyl)carbonyl|amino|-3-methyl-6-oxo-, 1,1-dimethylethyl ester (SCI) (CA INDEX NAME)

L9 ANSHER 5 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:862481 CAPLUS
DOCUMENT NUMBER: 18:304237
Analogs of the dopamine D4 receptor ligand PAUC 113
with planar- and central-chirality
LODer, Stefan, Ortner, Birgit, Bettinetti, Laure,
Hubner, Harald, Gmeiner, Peter
CORPORATE SOURCE: Emil Fischer Center, Department of Medicinal
Chemistry, Friedrich-Alexander University, Erlangen,
D-91052, Germany
SOURCE: Tetrahedron: Asymmetry (2002), 13(21),
2103-2310

100-2310 2303-2310 CODEN: TASYE3, ISSN: 0957-4166 Elsevier Science Ltd. Journal English CASREACT 138:304237

PUBLISHER: DOCUMENT TYPE: LANGUAGE:

OTHER SOURCE(S):

<12/04/2007> Erich Leese

113 with planar and central chirality)
511254-97-0 CAPLUS
Piperazine, 1-(4-chlorophenyl)-2-methyl-4-(phenylmethyl)-, (28)- (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

511255-00-8 CAPLUS
Piperazine, 1-(4-chlorophenyl)-2-methyl-, (28)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN CN

511255-18-8 CAPLUS Piperazine, 1-(4-chlorophenyl)-2-methyl-4-(phenylmethyl)-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

511255-22-4 CAPLUS
Piperazine, 1-(4-chlorophenyl)-2-methyl-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

<12/04/2007> Erich Leese

THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSHER 6 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 2002:714060 CAPLUS DOCUMENT NUMBER: 137:232677 137:232677
Preparation of heterocyclylphenyls for treatment of thromboembolic diseases and tumors Mederski. Merner, Cecanne, Bertram; Dorsch, Dieter; Tsaklakidis, Christos; Gleitz, Johannes; Barnes, Christopher Merck Patent Gmbh, Germany Ger. offen. 28 pp. CODEN: GWXXBX

INVENTOR (S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE

FAMILY ACC. NUM. CO PATENT INFORMATION: COUNT:

PATENT NO. DATE APPLICATION NO. KIND MX 2003PA08216 US 2004082563 ZA 2003008028 PRIORITY APPLN. INFO.:

MARPAT 137-232677

<12/04/2007>

OTHER SOURCE(S) .

Erich Leese

10/513699

CAPLUS 1-Piperazinecarboxylic acid, 4-(3-cyanophenyl)-3-[[[4-(2-oxo-1-piperidinyl)phenyl]amino]carbonyl)-, 1,1-dimethylethyl ester (9CI) (CA

L9 ANSWER 7 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 2002:469715 CAPLUS DOCUMENT NUMBER: 137:384813

137:384813
Synthesis and antitumor activity of novel pyrimidinyl pyrazole derivatives. Il. Optimization of the phenylpiperazine moiety of 1-[5-methyl-1-[2-pyrimidinyl]-4-pyrazolyl]-3-phenylpiperazinyl-1-transpropenes
Naito, Hiroyuki: Ohauki, Satoru, Sugimori, Masamichi; Acsumi, Ryo; Minami, Megumi; Nakamura, Yoshihide, Ishii, Mineko; Hirotani. Kenji, Kumazawa. Eiji; Ejima, Akio

Erich Leese

Akio Medicinal Chemistry Research Laboratory, Daiichi Pharmaceutical Co., Ltd., Tokyo, 134-8630, Japan Chemical Pharmaceutical Bulletin (2002), 50(4), 453-462 (CODEN: CPBTAL; ISSN: 0009-2363 Pharmaceutical Society of Japan Japan Japan CORPORATE SOURCE:

PUBLISHER: DOCUMENT TYPE:

PUBLISHER:

Pinarmaceutical Society of Japan
DOCUMENT TYPE:
Journal
LANGUAGE:

English

CASPRACT 117:384813

AB a series of novel 3-substituted-1-(5-methyl-1-(2-pyrimidinyl)-4-pyrazolyl)1-trans-propense in order to improve the in vitro and in vivo activity of
our prototype 3-[4-(3-chlorophenyl)-1-piperazinyl)-1-[5-methyl-1-(2pyrimidinyl)-4-pyrazolyl)-1-trans-propense (1) were synthesized and
evaluated by assays of growth inhibition against several tumor cell lines
in vitro and antitumor activity against some tumor models when dosed both
i.p. and orally in vivo. The 3,5-difluorophenyl and 3,5-dichlorophenyl

10/513699

Title compds. [I; R1 = H. Cyano, (substituted) C(:NII)NH2, CON(R3)2, [C(R4)2]nN(R3)2, etc.; R2, R5, R6 = H, halo, A, OR3, N(R3)2, NO2, cyano, [C(R4)2]nAr. [C(R4)2]nHet, [C(R4)2]ncycloalkyl, etc.; K3 = H, A, [C(R4)2]nAr. [C(R4)2]nHet, [C(R4)2]ncycloalkyl, etc.; K3 = H, A, W = N, CR3, EW = 3-7 membered (substituted) (saturated) (benzo-, heterocyclyl-condensed) (heterolocyclyl, x = [C(R4)2]nCONR3[C(R4)2]n, [C(R4)2]nNR3CO[C(R4)2]n, etc.; Y = alkylene, cycloalkylene, heterocyclyldiyl, aryldiyl; T = (substituted) (bi)heterocyclyl; a = (branched) (O. 5-, CH:CH-interrupted) (fluorinated) C1-6 alkyl; Ar = (substituted) Ph. maphthyl, biphenyl; Het = (substituted) C1-6 alkyl; Ar = (substituted) Ph. maphthyl, biphenyl; Het = (substituted) (cromatic) (bi)heterocyclyl; n = 0-2], were prept as inhibitors of factor Xa and VIIa (no data). Thus, a mixture of 4-(tert-butoxycarbonyl)-1-1-3-one, N-(3-dimethylaminopropyl)-N-ethylcarbodimide hydrochloride, and hydroxybenzotriazole hydrate in DMF was stirred with 4-methylmorpholine for 18 h at room temperature to give 4-(3-cyanophenyl)-3-(4-(2-oxop)peridin-1-yl)phenylcarbamoylphenyl-3-(4-czoxop)peridin-1-carboxylic acid tert-8u ester which was stirred with DMSO, X2CO3, and B2O2 in MeOH for 2 h at room temperature to give (3-carbamoylphenyl)-3-(4-(2-oxop)peridin-1-yl)phenylcarbamoylphenyl-3-(3-carbamoylphenyl-3-)-8-(4-(2-oxop)peridin-1-yl)phenylcarbamoylphenyl-3-3-0-P # 459133-00-P # 459133-00-P

459132-99-1 CAPLUS
1,3-Piperazinedicarboxylic acid, 4-(3-cyanophenyl)-, 1-(1,1-dimethylethyl)
ester (9C1) (CA INDEX NAME)

459133-00-7 CAPLUS 2-Piperazinecarboxylic acid, 1-(3-Cyanophenyl)-, monopotassium sait (9CI) (CA INDEX NAME)

<12/04/2007>

Brich Leese

analogs of I showed significantly more potent cytotoxicity than I in vitro and potent antitumor activities without causing decrease of body temperature related to side effects. 475653-33-9P

4 (2003-33-37) RE: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USBS

(Uses)
(Uses)
(Uses)
(synthesis and optimization of phenylpiperazine moiety of novel
pyrimidinyl pyracole derivs. in relation to their antitumor activities)
475653-33-9 CAPLUS
Pyrimidine, 2-(4-(1(E)-3-[4-(3.5-difluorophenyl)-3-methyl-1-piperazinyl]-1propenyl1-5-methyl-1H-pyrazol-1-yl}-, monohydrochloride (9CI) (CA INDEX
NAME)

Double bond geometry as shown.

● HC1

475653-31-7P
RL: RCT (Reactant), SPN (Synthetic preparation), PREP (Preparation), RACT (Reactant or reagent)
(synthesis and optimization of phenylpiporazine moiety of novel pyrimidinyl pyraxole derivs. in relation to their antitumor activities)
475653-31-7 CAPLUS
Piperazine, 1-(3,5-difluorophenyl)-2-methyl- (SCI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 8 OP 134 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 2002:291657 CAPLUS
DOCUMENT NUMBER: 136:310655 .
TITLE: Preparation of substituted piperazine-condensed

<12/04/2007>

Erich Leese

AUTHOR (S):

morphinoid derivatives as selective δ-opioid agonists and antagonists for treatment of conditions involving δ-opioid receptors Dondio, Giulio; Gagliardi, Stefania; Graziani, Davide; Raveglia, Luca Francesco Glaxosmithkline S.P.A., Italy PCT Int. Appl., 28 pp. CODEN: PIXXD2
Patent

INVENTOR (S) : PATENT ASSIGNEE(S):

DOCUMENT TYPE: LANGUAGE: . FAMILY ACC. NUM. COUNT: PATENT INFORMATION: Patent English

PATENT NO. KIND DATE APPLICATION NO. DATE

WO 20202030935 A1 20020418 M0 2001-EP11558 B2 20011005 M1 AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CM,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EB, FY, BZ, CA, CH, CM,
GM, HR, HU, ID. IL. IN. IS. JP, KE, KG, KP, KR, KZ, LC, LK, LK,
LS, LT, LU, LV, NAA, MD, MG, MK, MN, MM, MX, NO, NZ, PH, PL,
PT, RO, RU, SD, EB, GG, S1, SK, SL, TJ, TM, TR, TT, TZ, UA, UA,
INS, UZ, VN, VY, ZA, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZM, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, ML, PT, SE, TR, BF,
NJ, CF, CG, C1, CM, GA, GN, GO, GW, MR, NE, SN, TD, TG

AU 2002024772 A5 20020422 AU 2002-24772 20011005
R: AT, SE, CH, DE, DK, ES, FR, GB, GR, IT, LL, LU, NL, NL, SE, MC, PT,
JP 2004511846 T2 20040408 US 2003-59813 20011005
RTYA APPLIA, INFO: MARPAT 136:310065 PATENT NO. DATE 20020418 KIND APPLICATION NO. DATE 20011005 <--20011005 <--20011005 US 2004067959 PRIORITY APPLN. INFO.: OTHER SOURCE(S): MARPAT 136:310065

<12/04/2007>

Brich Leese

10/513699

940-70-1 LE RCT (Reactant); RACT (Reactant or reagent) (preparation of substituted piperazine-condensed morphinoid derivs. as selective A-opioid agonists and antagonists) 946-76-1 CAPLUS 1jernazine, 2-methyl-1-phenyl- (6Cf, 7CI, 8CI, 9CI) (CA INDEX NAME)

THERE ARE 2 CITED REPERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

COPYRIGHT 2007 ACS on STN: 142707 CAPLUS L9 ANSWER 9 OF 134 ACCESSION NUMBER: CAPLUS 2002:142707

DOCUMENT NUMBER : TITLE:

INVENTOR (S) :

2002.142797 CAPLUS
136.200181
Substituted and/or tweed pyrazoles, particularly
piperasinylpropyl-substituted pyrazolopyridines,
useful as cathepsin S inhibitors, and their
pharmaceutical compositions and use as
immunosuppressants
Breitenbucher, J. Guy; Cai, Hui; Edwards, James P.,
Grice, Cheryl A., Gustin, Darin J., Khatuya, Karipada,
Mediuma, Steven P., Pio, Barbara A., Tays, Kevin L.,
Wei, Jianmei
Ortho McNeil Pharmaceutical, Inc., USA
PCT Int. Appl., 161 pp.
Patent

PATENT ASSIGNEE(S): SOURCE:

English 9

LANGUAGE; FAMILY ACC. NUM. CO PATENT INFORMATION: COUNT:

> APPLICATION NO. DATE WO 2001-US25289 20010810 <--WO 2002014314 WO 2002014314 20020221 A2 A3 20020606

10/513699

Substituted piperazine-condensed morphinoid derivs. I (R1 = H or alkyl, R2 = H or one or more alkyl groups, R3 is R or RX-, wherein R is H or optionally substituted alkyl, aryl, arylalkyl, cycloalkyl or heterocyclyl and X is a linking group, and R4 = H or alkyl, when R4 = Me and R3 = Me or hydroxyethyl then R2 is not H) were prepared as selective 8-opioid agonists and antagonists. Thus hydroxodoinone was treated with 3-oxo-2-(phenylhydraxono)butyric acid Rt ester to give II. II was converted to the acid chloride which reacted with 4-chlorophenylpiperazine HCl to give derivative I (R1 = R4 = Me, R2 = H, R3 = 4-clc6H4). The activity of the prepared compos. as selective 8-opioid receptor ligands was evaluated in radioligand binding assays using cloned human 8, µ and x opioid receptors expressed in HEK cells (no data). The most potent compds. showed affinities for the 8 receptor ranging from 0.3 to 10 nM with delta selectivity; ranging from 15 to 400 times in respect to the other opioid receptor types (no data).

The C (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Usee)

(preparation of substituted piperazine-condensed morphinoid deriva. as

11

(Usca)
(preparation of substituted piperazine-condensed morphinoid derivs. as selective 8-opioid agonists and antagonists)
409305-18-4 CAPLUS
Piperazine, 2-methyl-4-{[(4b8,8R,8aR,12bR)-5,6,7,8,8a,9,12,12b-octahydro-1-methoxy-7,10-dimethyl-4,8-methonobenzofuro(3,2-elpyrrolo[2,3-g]isoquinolin-11-yl]carbonyl]-1-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

<12/04/2007>

Erich Leese

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N: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BE, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, CM, HR, BU, DI, LI, LI, M, S, PF, KE, KG, AP, RC, KZ, LS, LT, UJ, LV, MA, MD, MG, MK, MB, MM, MK, MZ, MG, RO, RU, SD, BE, SG, SI, SK, SL, TJ, TM, TTR, TT, TZ, VN, YU, ZA, ZM, RH, GM, MB, LB, ZT, LU, ZM, AT, DE, DK, ES, FI, FR, GB, GR, LE, LT, LU, MC, NL, PT, SJ, CF, CG, CI, CM, GA, GM, GQ, GM, MM, LMR, NR, SN, CA 2419540
Al 200181255
A 2002040210
Al 2002040210
Al 2002040404 US 2001-228122
EP 1309591
B1 200701244
R: AT, BE, CM, DE, DK, ES, FR, GB, GR, LT, LI, LU, NL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CA, CH, CN,
GD, GB, GH,
LC, LK, LR,
NZ, PL, PT,
UA, UG, UZ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BE, CH, CY,
SE, TR, BP,
TD, TO
20010810 <--
20010810 <--
                                                                                                                                                                                                                                                                                                                                                                                         A2 20030514 BP 2001-959731 20010810 B1 20070124 DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, LV, FI, RO, MK, CY, AL, TR
T 20040422 JP 2002-519454 20010810 A 20041224 NZ 2001-524193 20010810 C 2 20061027 RU 2003-107018 20010810 T 20070215 AT 2001-959731 20010810 A 20050311 IN 2003-FN1421 20030214 A 20050311 IN 2003-FN1421 20030214 A 20050311 IN 2003-FN149 20030214 A 20040523 ZA 2003-2052 20030313 A1 20070104 US 2006-517040 20060907 A1 20070104 US 2006-517115 20060907 A1 20070114 US 2006-517518 20060907 A1 20070114 US 2006-517518 20060907 A1 20070114 US 2006-517312 20060907 A1 20070114 US 2006-517012 20060907 A1 20070115 US 2006-517012 A 20060907 A1 20070115 US 2006-917017 A 20070115 US 20060907 A1 20070115 US 20060907 A1 20070115 US 20070
EP 1309991
EP 1309991
EP 1309991
ER I IE SE, CH, I
IE SE, LT, I
JP 2004512272
NZ 524193
BU 2266343
AT 352552
MX 2003PA01421
IN 2003RN00189
ZA 2003002052
US 2007004755
US 2007004755
US 2007004755
US 2007004747
US 2007016330
US 2007016330
US 200701137
PRIORITY APPLN. INFO::
        OTHER SOURCE(S):
                                                                                                                                                                                                                                                                                                                                                                                                     MARPAT 136:200181
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. STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT .

AB Substituted pyrazoles I, methods of manufacturing them, compns. containing them, and methods of using them to treat, for example, autoimmune diseases mediated by cathepsin S, are described [Rl \* H. N3, halo, alkoxy, OH, alkyl, alkoxy, alkyl, alkenyl, haloalkyl, cyano, or (un)aubstituted NN2, acyl, etc., R2 \* H. halo, alkoxy, alkyl, alkenyl, haloalkyl, cyano, or (un)aubstituted NN3, or R1R2 \* atoms to form (un)substituted (un)saturated (non)aromatic 5 \* to 7-membere carbo- or heterocyclic ring, R3, R4 \* H, alkyl, R5, R6 \* H, alkyl, alkenyl, alkoxy, alkylthio, halo, or 4 \* to 7-membered carbo- or heterocyclyl; or R5R6 \* atoms to form (un)substituted (un)saturated (non)aromatic
5 \* to 7-membered carbo- or heterocyclic ring, n \* 1 or 2, G \*

aromatic
5 - to 7-membered carbo- or heterocyclic ring; n = 1 or 2, G =
(un)substituted C3-6 alkanediyl or alkenediyl (substituents = OH, halo,
oxo, aminoalkyl, etc.); X, Y, Z = N, (un)substituted CH; Ar =
(un)substituted mono- or bicyclic (heterolaryl; W = SO2, CO,
(un)substituted CH2, bond; or WR1 = atoms to form a bencoxsol-2-yl,
benzothiazol-2-yl, benzimidazol-2-yl, 1,2-benzimoxazol-3-yl ring;
including stereoisomers and pharmaceutically acceptable salts, esters, and

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amides). Claimed usages include treatment of lupus, rheumatoid arthritis, and particularly asthma, and inhibition of tissue transplant rejection. Approx. 250 individual compds. I were prepared and/or claimed, with detailed prepns. given for 24 compds. For instance, 4-(2-chloro-6-methanesulfonylaminophenyl)piperazine-1-carboxylic acid tert-Bu ester (prepared in 4 steps) was deprotected with TPA and coupled with the corresponding epoxide (prepared in several steps) to give title compound II, a preferred compound In an assay for inhibition of recombinant human cathepain S in vitro. II had an ICSo of 0.05 µM. Compound III was another of three specifically preferred compds. 400801-62-5P, 1-[3-4-(c-Ntorophenyl)-1-[2-4)qroxy-3-(3-methyl-4-p-tolylpiperazin-1-yl)propyl]-1,4,6,7-tetrahydropyrazolo(4,3-c)pyridin-5-yllethanone

ylicthanone RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(Therapeutl user, but (Uses) (Uses) (drug candidate, preparation of piperazinylpropyl-substituted pyrazolopyridines and analogs as cathepsin S inhibitors) 400803-62-5 CAPLUS HI-Pyrazolo[4,]-clpyridine-1-cthanol, S-acetyl-3-(4-chlorophenyl)-4,5,6,7-Letrahydro-u-[[3-methyl-4-(4-methylphenyl)-1-piperazinyl]methyl] (SCI) (CA INDEX NAME)

L9 ANSWER 10 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 2002:71877 CAPLUS
DOCUMENT NUMBER: 136:134783
TITLE: Preparation of picco

136.134783
Preparation of piperazine(or piperidine)-1-carboxamides as CCRS modulators
Bondinell, Milliam E., Neeb, Michael J.
Smithkline Beecham Corporation, USA
PCT Int. Appl.. 79 pp.
CODEN: PIXXD2
Patent
English
J

INVENTOR(S): PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

APPLICATION NO. PATENT NO. KIND DATE DATE WO 2002005819
W: AB, AG, AL,
CO, CR, CU,
GM, HR, HU,
LS, LT, LU,

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provide potential therapeutic in the treatment of COPD. Also, since CCR5 is a co-receptor for the entry of HIV into cells, selective receptor modulators may be useful in the treatment of HIV infection.

SPINSI-79-1P RL: PAC (Pharmacological activity), SPN (Synthetic preparation), TKU (Therapeutic use); BIOL (Biological study), PREP (Preparation), USES (Uses)

(uses)
(preparation of piperazine(or piperidine)-1-carboxamides as CCR5 modulators)
391881-79-1 CAPUS
1-Piperazinecarboxamide, N-[3-[2-{bis(1-methylethyl)aminojethoxy]-4-methoxyphenyl]-4-(4-methoxyphenyl)-3-methyl- (9CI) (CA INDEX NAME)

35947-12-7. 1-(4-Methoxyphenyl)-3-methylpiperazine
RL: RCT (Reactant); RACT (Reactant or reagent)
[preparation of piperazine(or piperidine)-1-carboxamides as CCRS modulators)
35947-12-7 (APLUS
Piperazine. 1-(4-methoxyphenyl)-2-methyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 2 CITED REPERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 11 OF 134 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

CAPLUS COPYRIGHT 2007 ACS on STN
2001:886128 CAPLUS
136:20084
Preparation of 5-amino-pyrazolo(4,3-e]-1,2,4triazolo(1,5-c)pyrimidines as adenosine A2a receptor
antagonista
Neustadt. Bernard R.; Lindo, Neil A.; Greenlee,
William J.; Tulshian, Deen; Silverman, Lisa S.; Xia,
Yan; Boyle, Craig D.; Chackalamannil, Samuel
Schering Corporation, USA
PCT Int. Appl., 66 pp.

PATENT ASSIGNEE(S): SOURCE:

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RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UG, UZ, VN, YL, ZA, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RN: GH, GM, KR, LS, HM, MZ, SD, SL, SZ, TZ, UG, ZM, AT, BE, CH, CY, DE, DK, ES, FT, FR, GB, GR, IE, IT, LU, MC, NL, FT, SE, TR, DF, BJ, CF, CO, CT, CM, GA, GN, GW, ML, MZ, NE, SN, TD, TO

AU 2001080599 A5 20020130 AU 2001-80599 20010713

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FT, SN, KC, YC, AL, TR

BE, SI, LT, LV, FT, NO, MK, CY, AL, TR

PRIORITY APPLM. INFO::

OTHER SOURCE(S): MARPAT 116:1194785 , 20010713 <--OTHER SOURCE(S): MARPAT 136:134783

$$A-D-E \downarrow N-J-L-E$$

The title compds. (I; the basic N atom in moiety E may be optionally quaternized with alkyl or optionally prement as the N-oxide; A = (un)substituted (heterolaryl or (heterolaryl fused to a saturated or partly unsatd. 5-7 membered ring; D = a bond. CO, SO2, etc., E10 = NC(R26)2, NC(R26)2. CR27C(R26)2, CCR26, R26 = H, alkyl; R27 = H, CN, NO2, etc., R = N, alkyl, O, J = CO, SO2, t = NR30, O, C(R30)2; R30 = H, alkyl; E = 1-(2-dispopropylamino)ethoxy-4-methoxyphenyl, etc.] which are modulators, agonists or antagonists, of the CCR5 receptor, and therefore are useful in the treatment and prevention of disease states mediated by CCR5, including, but not limited to, anthma and atopic disorders (for example, atopic dermatitis and allergies), rheumatoid arthritis, sarcoidosis, or idiopathic pulmonary fibronis and other fibrotic diseases, atheroacierosis, psoriasis, autoimmune diseases such as multiple sclerosis, treating and/or preventing rejection of transplanted organs, and inflammatory bowel disease, were prepared Thus, treating 4-phonyl-1,2,3,6-tetrahydropyridine, HCl with triphosgene in the presence of EtN in CM212 followed by addition of 3-12-disopropylamino)ethoxy-4-methoxyaniline afforded fit. The compds. I showed CCR5 receptor modulator activity having ICSO values in the range of 5.0001-100 µM.

Purthermore, since CDS+ T cells have been implicated in COPD, CCR5 may play a role in their recruitment and therefore antagonists to CCR5 could

<12/04/2007>

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DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

CODEN: PIXXD2 Patent English

				DATE								
				20011206								
W;				, AU, AZ,								
	CO, C	R, CZ,	DE, DK	, DM, DZ,	EC, E	E, ES,	FI,	GB,	GD,	GE,	HR,	HU,
				, KG, KR,								
	MG, N	IK, MN.	MX. MZ	, NO, NZ,	PL. P	r, RO,	RU,	SE,	SO,	SI,	ΒK,	SL,
	TJ, T	M, TR,	TT, TZ	, UA, US,	UZ, V	N, YU,	ZA					
RW	: GH, G	M, KE,	LS, MW	, MZ, SD,	SL, S	z, Tz,	υg,	ZW,	AT,	BE,	CH,	CY,
	DE, D	K, ES,	PI, FR	, GB, GR,	IE, I	r, Lu,	MC,	NL,	PT,	SE,	TR.	BF,
	BJ, C			, GA, GN,								
CA 2410	0237		A1	20011206	CA	2001-	2410	237		2	0010	524 <
US 200	2099061	•	A1	20011206 20020725 20031007 20030219	US	2001-	8650	71		2	0010	524 <
US 6636	0475		B2	20031007								
EP 1283	3839		A1	20030219	EP	2001-	94599	91		2	0010	524
EP 128	3839		B1	20050420								
R;	AT, E	BE, CH,	DE, DK	, ES, FR,	GB, G	R, IT,	LI.	LU,	NL,	SE,	MC,	PT,
	IE, S	I, LT,		, RO, MK,								
CN 145				20031022								
JP 200	3535094		T	20031125	JP	2002-	50081	77		2	0010	524
BR 200:	1011015		A	20050111 20050515	BR	2001-	11019	5		2	0010	524
AT 293	627		T	20050515 20050801	AT	2001-	94599	91		2	0010	524
ES 223'			T3	20050801	ES	2001-	1945	991		2	0010	524
NZ 522 CN 180 HU 200	326		A	20060331	NZ	2001-	52232	26		2	0010	524
CN 180	0186		A	20060712	CN	2006-	10004	1929			0010	
HU 200	600239		A2	20060728							0010	
ZA 200:	2008898	1	A	20040301	ZA	2002- 2002-	8898			2	0021	
NO 200:				20030123							0021	
				20030327								
IN 200		2	A A1	20050211	IN	2002-	CN19:	32		2	0021	
HK 104				20050916	HK	2003-					0030	
US 200				20040205		2003-	4488	54		2	0030	530
US 689			B2 A1	20050524								
US 200		!	A1	20050203		2004-	9128	14		2	0040	806
US 706				20060627						_		
JP 200			A	20060824	JP	2006- 2007-	1284	15		2	0060	
JP 200		i	A	20070614	JP	2007-	6961	8		. 2	0070	
PRIORITY AP	PLN, IN	IFO . :			US	2000-	2071	136		r 2	0000	526
						2001-				AJ 2	0010	524
					US	2001-	8650	/1		AJ 2	0010	524
					wo	2001-	US 16	954		w 2	0010	524
amuan naimai				126.0000		2003-	4488	•		M3 2	0030	030
OTHER SOURCE	E(8):		MAKPAT	136:2008	•							

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<12/04/2007>

The title compds. II, R = (un)substituted Ph. cycloalkenyl, heteroaryl, X = alkylene, COCN2; Y = O, S. CH2S. (CH2)2NH, etc., Z = (un)substituted Ph. phenylalkyl heteroaryl, etc., or Z and Y together are substituted Ph. phenylalkyl heteroaryl. etc., or Z and Y together are substituted Ph. phenylalkyl or phenyl). useful in the treatment of Parkinson's disease, slone or in combination with other agents for treating Parkinson's disease, vere prepared and formylated. E.g., a sulti-step synthesis of I [R = 2-furany]; X = (CH2)2; ZY = 4-(2,4-difluorophenyl)piperazin-1-yl] was described. Compds. I showed Ki of 0.3-57 nM against A2a receptor binding. 3/77/27-38-3P 3/77/27-60-1P RL; PAC (Pharmacological activity), SPM (Synthetic preparation); TNU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

[preparation of 5-amino-pyrazolo(4,3-e]-1,2,4-triazolo(1,5-c]pyrimidines as adenosine A2a receptor antagonists)
3/77/27-38-3 CAPUS
7H-Pyrazolo(4,3-e)1,2-(4)triazolo(1,5-c)pyrimidin-5-amine,
7-(2-(4-(chlorophenyl)-3-methyl-1-piperazinyl)ethyl]-2-(2-furanyl)-(9CI) (CA INDEX NAME)

377727-60-1 CAPLUS
7H-Pyrazolo(4,3-e)[1,2,4)triazolo(1,5-e)pyrimidin-5-amine,
2-(2-furanyl)-7-[2-(4-(4-methoxyphenyl)-3-methyl-1-piperazinyl]ethyll[OCI) (CA-INDEX NAME)

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# Absolute stereochemistry.

<12/04/2007>

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REFERENCE COUNT: THERE ARE 4 CITED REPERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE PORMAT

CAPLUS COPYRIGHT 2007 ACS on STN 2001:747771 CAPLUS

L9 ANSWER 12 OF 134 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

MARPAT 135:303912

2001:747771 CAPLUS
1155:303912
Preparation of succincylamino-heterocycles as All
peptide production inhibitors
Thompson, Lorin Andrew, Kaslreddy, Padmaja
Dupont Pharmaceuticals Company, USA
PCT Int. Appl., 145 pp.
CODEN: PIXXD2
Patent INVENTOR(S): PATENT ASSIGNEE(S); SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: English

OTHER SOURCE(S):

PAT	TENT !	NO.																	
						-										-			
WO	2001	747	96		A1		2001	1011	1	NO	200	l - t	8102	97		2	0010	330	<
	W:	AT,	AU,	BR,	CA,	CH,	CN,	CZ,	DE,	DK	, E1	ŝ,	ES,	FI,	GB,	ΝU,	IL,	IN.	
		JP,	KR,	LT,	LU,	LV,	MX,	NO,	NZ,	PL	, P	Γ,	RO,	RU,	SE,	60,	SI,	BK,	
		UA,	VN,	ZA.	AM,	AZ,	BY,	KG,	KZ,	MD	, RI	J,	TJ,	TM					
	RW:	AT,	BE,	CH,	CY,	DE,	DK,	ES,	FI,	PR	, GI	3,	GR,	IE.	IT,	LU,	MC,	NL,	
		PT,	SE,	TR															
CA	2404	314			A1		2001	1011		CA	2001	1 - 2	4043	14		2	0010	330	<
EP	12684	54			A1		2003	0102		EΡ	2001	i - 9	2449	8		2	0010	330	
	R:	AT,	BE,	CH,	DB,	DK,	28,	FR,	GB,	GR	, 11	Γ,	Lī,	LU,	NL,	SE,	MC,	PT,	
		IE,	SI,	LT.	LV,	FI,	RO,	CY,	TR										
JP	2003	5295	94		T		2003	1007		JP	200	1 - 5	7248	9		2	0010	330	
ORITY	APP	LN.	INFO	. :						US	2000	) - I	9345	OP		P 2	0000	331	
									,	O	2001	t-t	5102	97		<b>7</b> 2	0010	330	

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365539-26-0 CAPLUS 1-Piperazinebutanamide, 4-(4-chlorophenyl)-3-methyl-  $\beta$ - (2-methylpropyl)- $\gamma$ -oxo- $\alpha$ -propyl-, ( $\alpha$ S, $\beta$ R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

365539-46-4 CAPLUS
1-Piperazinebutanamide, 3-methyl-4-(4-methylphenyl)-β-(2-methylpropyl)-γ-οxο-α-propyl-, (α8,βR)- (9Cl) (CA
INDEX NAME)

Absolute stereochemistry.

<12/04/2007>

REFERENCE COUNT: THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE PORMAT

L9 ANSWER 13 OF 134
ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:

CAPLUS COPYRIGHT 2007 ACS on STN
2001:731861 CAPLUS
136:14987 'Structure-Affinity Relationships of a Unique Nicotinic
Ligand: N1-Dimethyl-N4-phenylpiperazinium Iodide
(DMPP)

AUTHOR (S) :

OMPP) (MPP) CORPORATE SOURCE

SOURCE:

PUBLISHER:

Erich Leese

Brich Leese

DOCUMENT TYPE: Journal

DADE: Brglish

DMPD is a well-known nicotinic agonist that does not fit any proposed pharmacophore for nicotinic binding and represents a unique ligand among the hundreds of nicotinic agonists studied in the past decades. A systematic modulation of the chemical structure of DMPP, almed to establish its structure-affinity relationships, is reported. The research has allowed to identify moles, with affinities for cafp2 receptors in the low nanomolar range, some 2 orders of magnitude lower than the lead compound The agonistic properties of the most interesting compds, have been assessed by measuring their analgesic activity on mice (hot-plate test). Another result of the research was the identification of DMPP analogs with Ki = 90 nM and 180 nM, that maintain affinity for the central nicotinic receptor when the ammonium function is changed into an aminic one and are therefore possible leads for drug development in neurodegenerative

IТ

378758-81-7 CAPLUS Piperazinium, 1,1,3-trimethyl-4-phenyl-, iodide (9CI) (CA INDEX NAME)

<12/04/2007>

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The title compds. [I, A, B \* C, N so that ring X = pyrrole, pyrazole or imidazole (wherein when A \* N, the group CONRIR2 is attached to atom C-3 and RS does not exist; and when A \* C, one of CONRIR2 and RS is attached to A and the other to atom C-3, and when B \* C, two Rd groups attached to B and atom C-5, resp., form a fused 6-membered heteroaryl); f \* O-1, g \* 1-2; R1, R2 = H, alkyl, heterocycloalkyl, etc., R2 together with RR1 or R5 forms a S-6 membered heterocyclo; R3 \* H, alkyl, aryl, etc., R4 is attached to atom C-5 and optionally B and is H, alkyl, aryl, etc., R5 is attached to A or atom C-3 and is H, alkyl, aryl, etc., R5 is attached to A or atom C-3 and is H, alkyl, aryl, etc., R5 is attached to A or atom C-3 and is H, alkyl, aryl, etc., R5 together with R2 forms a heterocyclo], useful as cannabinoid receptor modulators (no data given) for treating respiratory and non-respiratory leukocyte-activation associated diseases, were prepared Thus, reacting the acid chloride II [X \* Cl] (multi-step synthesis given) with 2,2,6,6-tetramethylcyclohexylamine afforded the pyrrolol(1,2,3-de)-1,4-benzoxazine-6-carboxamide II [X \* 2,2,6,6-tetramethylcyclohexylamine)] 354572-398-699
RL: RAC (Biological activity or effector, except adverse), BSU (Biological study, unclassified), SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (USes) (preparation of 11 hindole-3-carboxamides, 11 hindole-3-carboxamides, 11 hindole-3-carboxamides, 11 hindole-3-carboxamides, 12 hindole-1-carboxamides, 13 cannabinoid receptor modulators for treating respiratory and non-respiratory diseases)
354572-38-6 CAPLUS
Piperazine, 4-[17-methoxy-1-[2-(4-morpholiny)]ethyl]-1H-indazol-3-yl]carbonyl]-1-(4-methoxyphenyl)-2-methyl- (9CI) (CA INDEX NAME)

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REPERENCE COUNT: THERE ARE 63 CITED REPERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

RECORD. ALL CITATIONS AVAILABLE IN THE RE PORMU

CAPLUS COPYRIGHT 2007 ACS ON STN
2001:597958 CAPLUS
313:166827
Preparation of IH-indole-3-carboxamides,
1H-indaxole-3-carboxamides,
1H-indaxole-3-car INVENTOR (S) :

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE:

English

FAMILY ACC, NUM. COUNT:

	ENT .																
	2001															00102	
	2001									-			-		-		
	₩:	AE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BC,	BR,	BY,	82,	CA,	CH,	CN,
		CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FI,	GB,	GD,	GE,	GH.	GM.	HR.
		Hυ,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,	LS,	LT,
		LU,	LV,	MA.	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO.	NZ,	PL.	PT.	RO.	RU,
		SD,	SE,	SG,	SI,	sĸ,	SL,	TJ,	TM,	TR,	TT.	TZ,	UA,	UG,	US,	UZ,	VN,
		YU,	ZA,	ZW													
	RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ.	UG,	ZW,	AT,	BE,	CH,	CY,
		DE,	DK,	ES,	FI,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL,	PT.	BE.	TR,	BF.
		BJ,	CF,	CG,	CI,	CM,	GA,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	TG		
CA	2399	791			A1		2001	0816		CA 2	001-	2399	791		2	0010	208 4
AU	2001	495	3		A		2001	0820		AU 2	001-	34951	3		2	0010	208 4
EP	1254	115			A2		2002	1106		EP 2	001-	90714	14		2	0010:	208 <
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI.	LU,	NL,	SE.	MC.	PT.
		IE,	SI,	LT.	LV,	FI,	RO,	MK,	CY,	AL,	TR						
JP	2004	50264	12		T	٠	2004	0129		JP 2	001-	55842	20		2	0010:	108
RIT	APP	LN.	INFO	. :						US 2	000-	1918	182		P 2	00000	211
										WO 2	001-1	US413	31		W 2	00102	208

<12/04/2007>

Brich Leese

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L9 ANSMER 15 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:581863 CAPLUS
DOCUMENT NUMBER: 15:5152801
TITLE: 15:5152801
PROPERTY ASSIGNEE(S): 2001:581863 CAPLUS
INVENTOR(S): 2001:581863 CAPLUS
DESCRIPTION OF 2-benzothiazolyl ureas as protein kinase inhibitors
Cusack, kevin P., Scott, Barbara, Arnold, Lee D., Ericason, Anna
Basia Aktiengesellschaft, Ggrmany
CODEN, PIXXO2
DOCUMENT TYPE: 2001:581863 CAPLUS
DESCRIPTION OF 2-benzothiazolyl ureas as protein kinase inhibitors
Cusack, kevin P., Scott, Barbara, Arnold, Lee D., Ericason, Anna
Basia Aktiengesellschaft, Ggrmany
CODEN, PIXXO2
DOCUMENT TYPE: 2001:581863 CAPLUS
DESCRIPTION OF 2-benzothiazolyl ureas as protein kinase inhibitors
Cusack, kevin P., Scott, Barbara, Arnold, Lee D., Ericason, Anna
Basia Aktiengesellschaft, Ggrmany
CODEN, PIXXO2
PARTICLE OF 2-benzothiazolyl ureas as protein kinase inhibitors
Cusack, kevin P., Scott, Barbara, Arnold, Lee D., Ericason, Anna
Basia Aktiengesellschaft, Ggrmany
CODEN, PIXXO2
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Cusack, kevin P., Scott, Barbara, Arnold, Lee D., Ericason, Anna
Basia Aktiengesellschaft, Ggrmany
CODEN, PIXXO2
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Cusack, kevin P., Scott, Barbara, Arnold, Lee D., Ericason, Anna
Basia Aktiengesellschaft, Ggrmany
CODEN, PIXXO2
PARTICLE OF 2-benzothiazolyl ureas as protein kinase inhibitors
Cusack, kevin P., Scott, Barbara, Arnold, Lee D., Ericason, Anna
Basia Aktiengesellschaft, Ggrmany
CODEN, PIXXO2
PARTICLE OF 2-benzothiazolyl ureas as protein kinase inhibitors
Cusack, Revin P., Scott, Barbara, Arnold, Lee D., Ericason, Anna
Basia Aktiengesellschaft, Ggrmany
CODEN, PIXXO2
PARTICLE OF 2-benzothiazolyl ureas as protein kinase inhibitors
Cusack, Revin P., Scott, Barbara, Arnold, Lee D., Ericason, Anna
Basia Aktiengesellschaft, Ggrmany
CODEN, PIXXO2
PARTICLE OF 2-benzothiazolyl ureas as protein kinase inhibitors
Cusack, Revin P., Scott, Barbara, Arnold, Lee D., Ericason, Anna
Basia Aktiengesellschaft, Ggrmany
CODE

LANGUAGE: PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

DATE ---PATENT NO. KIND DATE APPLICATION NO.

<12/04/2007> Erich Leese PRIORITY APPLN. INFO.:

MARPAT 135:152801

The title compds. [I; 0 = H or a bond which is taken together with X1 and two N atoms to which 0 and X1 are attached and C:Y group to which the two N atoms are attached to form II; 0] = alkyl; Y = 0, S; M = H, Cl, BT, etc.; X1 = H, alkyl. hydroxyalkyl or a bond which is taken together with R3 to form pyrrolidino, piperazino or morpholino; R1, R2 = H, halo, OH, etc.; R3 = H, alkyl. aryl. etc.], useful as inhibitors of serine/chreonine and tyrosine kinases such as FOFR, PDOFR, KDR, VEDFR-3, Tie-2, Tie-1, Lck. Pyn. Blk. Lyn, Src. cdc2 (cdxl) or Plk-1 [biol. data given], were prepared and formulated. Thus, reacting 3,5-dimethoxyphenyl isocyanate with 2-maino-6-nitrobenzothiazole in the presence of Et3N in PhMe afforded I [W = NO2: 0, X1, R1, R2 = H; Y = O; R3 = 3,5-(MeO)2C6H3]. In particular, compds. I are useful as inhibitors of tyrosine kinases that are important in hyperproliferative diseases, especially in cancer and in the process of angiogenesis.

in hyperproliferative diseases, especially in cancer and in the process of angiogenesis.
352527-26-5P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation), THU (Therapeutic use); BIOL (Biological study); PREP (Preparation), USES (Uses) (preparation of 2-benzothiazoly) ureas as protein kinase inhibitors) 352527-26-5 CAPLUS
1-Piperazinecarbothioamide, 3-methyl-N-(6-nitro-2-benzothiazolyl)-4-phenyl-(9CI) (CA INDEX NAME)

REPERENCE COUNT:

22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSMER 16 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:472725 CAPLUS
DOCUMENT NUMBER: 135:76897
Synthesis and use of substituted piperidine and piperazine derivatives (e.g. N-(sulfonyl)aryl, N-alkylcarboxamido piperazines) as antagonists of the

<12/04/2007>

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$$\begin{array}{c}
R^{1} \\
R^{3} - (SO_{2}) \stackrel{M^{1}}{m^{1}} \\
R^{2} \\
Y \\
X - N \\
R^{4} \\
Y \\
R^{4} \\
R^{4}
\end{array}$$

Compds. of formula I, their preparation and use as P2X7 receptor antagonists are claimed (wherein; X = N or CR5; Y = 0, S, or NR6, R1, R2 = N or alkyl but do not simultaneously represent N, or R1R2 = CN22CN2; Z = bond, 0, S, CN2, or NR7; m = 0 or 1; R3 = 5:10 membered unsatd. (substituted) ring which may contain 1-4 heteroatoms chosen from N, 0 or S; R4 = ortho-substituted Ph/pyridinyl, said rings may be further substituted, or R4 = 9:10 membered unsatd. (substituted) or R4 = 9:10 membered unsatd. (substituted) bicyclic ring system which may contain 1-4 heteroatoms chosen from N, 0 or S; R5 = N, 0N or alkoxy; R6 = N, CN, NO2, OH, alkyl or alkoxy; R7 = N, alkyl, with addnl. provisos]. More than 100 synthetic examples are provided. For instance. (R)-1-ethyl-1-phenylmethylpiperazine (prepared in 3 steps from (R)-N-Boc-2-aminobutyric acid) was reacted with 1-methylimidazole-4-sulfonyl chloride in the presence of base to give the corresponding N-benzyl piperazine sulfonamide. This intermediate was debenzylated and reacted with 2-chloro-N-(quinolin-5-yl)acetamide to yield II. The invention compds. were tested for antagonist activity at the P2X7 receptor using benzoylbenzyl ATP (bbATP, a P2X7 agonist) as control for P2X7 receptor activation. Compds. of the invention had p1C50 (neg. log of the concentration of test compound necessary to reduce the bbATP agonist activity solves.)

501) > 5.0. Compds. I are used for treatment of rheumatoid arthritis and COPD, and for effecting immunosuppression.
347194-32-5
RL: BAC (Biological activity or effector, except adverse); BSU (Biological actudy, unclassified); SPN (Synthetic preparation); TNU (Therapeutic use); BIOL (Biological study); PREP (Preparation); TNU (Therapeutic use); Glorg candidate; synthesis and use of substituted piperidine and piperazine derivs. (e.g. N-(sulfonyllaryl, N-alkylcarboxamido piperazines) as antagonists of the PZET receptor)
347194-132-5 CAPLUS
1-Piperazineacetamide, N-(2,6-dimethylphenyl)-3-methyl-4-(4-methylphenyl)-(SCI) (CA INDEX NAME)

Erich Leese

10/513699

P2X7 receptor Meghani, Premii; Bennion, Colin Astraxeneca AB, Swed. PCT Int. Appl., 156 pp. CODEN: PIXXD2 Patent English 1 INVENTOR (S) : PATENT ASSIGNEE (S) : DOCUMENT TYPE:

PATENT NO. DATE 20010628 APPLICATION NO. KIND ATENT To...

10 2001046200

M: AR. AG, AL, AM, AT, AU, AZ, BA, CR, CV, CZ, DE, DK, DM, DZ, EE, ES, PI, CL, BA, 20001218 <--20001218 <--EP 1242427 B1 20030813 R
R: AT, BB, CH, DE, DX, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
JP 2003518126 T 20130815 AT 2003-68102 20001218
AT 247123 T 20030815 AT 2003-68102 20001218
AU 776592 B2 20140916 AU 2003-25648 20001218
AU 776592 B2 20140916 AU 2003-25648 20001218
AU 776592 B2 20040916 AU 2003-25648 20001218
AU 776592 B2 20040916 AU 2003-25648 20001218
AU 776592 B2 20040916 AU 2003-26648 20001218
AU 706592 B2 20040916 AU 2003-168094 2002617
US 2003013721 A1 20030116 US 2002-168094 20020617
US 6969711 B2 20051129
NO 2002003037 A 20030829 LA 200303-307 200206211.
NO 2002003037 A 20030829 A 200304064 JP 2003518126 AT 247123 NZ 519498 AU 776592 ZA 2002004307 US 2003013721 US 6969713 NO 2002003037 MX 2002PA06261 A B2 A A1 B2 A A1 20020621 <--NO 2002-3037 MX 2002-PA6261 US 2005-125335 SB 1999-4738 WO 2000-SB2580 US 2002-168094 20021205 US 2005272745 PRIORITY APPLN. INPO.: 20051208 20050510 19991222

OTHER SOURCE(S): MARPAT 135:76897

<12/04/2007>

Erich Leese

10/513699

35947-11-6
RL: RCT (Reactant), RACT (Reactant or reagent)
(precursor, synthesis and use of substituted piperidine and piperazine derivs. (e.g. N-(sulfonyl)aryl, N-alkylcarboxamido piperazines) as antagonists of the P2X7 receptor)
35947-11-6 CAPLUS
Piperazine, 2-methyl-1-(4-methylphenyl)- (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE PORMAT

L9 ANSMER 17 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
134;340709
PTEPAT ANSMER 19 PEPATATION OF SUBSTITUTE:
INVENTOR(S):
Shima, Ichiro, Ohkava, Takohiko, Ohne, Karuhiko, Sato, Kentaro Inhibabih, Naoki, Imamura, Kenichiro
SOURCE;
DOCUMENT TYPE:
LANGUAGE:
PATENT ASSIONEE(S):
DOCUMENT TYPE:
LANGUAGE:
PATENT ASSIONEE(S):
BERNALLY ACC. NUM. COUNT:
1

PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. MO 2001032690 A1 20010510 WO 2000-JP7579 20001027

W: BR.CA.CH., DP, KR. US

RW: AT. BR. CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,

PT, SE

EP 1226159 A1 20020731 EP 2000-970164 20001027 20001027 \*\*\*

<12/04/2007>

Erich Leese

R: AT. BE, CH. DE, DK. ES, FR, OB, GR. IT. LI, LU, NL, SE, MC. PT.

IE, FI, CY

JP 2003513104

T 20030408

JP 2001-335389

20001927

US 6825200

B1 20041130

US 2002-111412

20020506

PRIORITY APPLII. INFO:

AU 1999-3868

A 19991104 JP 2001-535389 US 2002-111412 AU 1999-3868 WO 2000-JP7579

OTHER SOURCE(S):

MARPAT 134:340709

Dipeptides 1 [R1 is benzofuranyl or styryl substituted by halogen; R2 is (unlaubstituted Ph. pyridyl, thienyl, or thiazolyl; R3, R6 = H or lower alkoxy; R4, R5 = H, lower alkyl or optionally protected hydroxy(lower)alkyl) or their pharmaceutically acceptable salts were prepared for use in the prevention and/or treatment of nitric oxide-mediated diseases. Thus, 5-chloro-N-[(15)-2-[(2-(4-(4-chlorophenyl)-1-piperazinyl)-2-oxocetyl]mainol-2-oxoc-1-(2-pyridylmethyl)-1-benzofuran-2-carboxamide (II) was prepared via amidation reaction and showed 100% inhibition of nitric acid. The combination of compound II and FK507 dramatically prolonged graft survival in rat cardiac allograft.

BL: BAC [Slological activity or effector. available.]

337530-63-9P RL: BAC (Biological activity or effector, except adverse): BSU (Biological study, unclassified): SPN (Synthetic preparation): THU (Therapeutic use): BIOL (Biological study): PREP (Treparation): USES (Uses) (preparation of substituted dipeptides having NOS inhibiting activity) 37530-63-9 CAPLUS

]]7530-63-9 CAPUUS 2-Pyridinepropanamide, u-{[(S-chloro-2-benzofuranyl)carbonyl]amino]-N-[2-(3-methyl-4-phenyl-1-piperazinyl)-2-oxoethyl]-, (uS)- (9CI) (CA INDEX NAME)

#### Absolute stereochemistry.

<12/04/20075

Erich Leese

#### 10/513699

SD. SE, SG, S1, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW
RM: GH, GM, KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZM, AT, BE, CH, CY, DE, DK, ES, F1, FR, GB, GR, IE, IT, LU, MC, NL, FT, SE, BF, BJ, CF, CG, C1, CM, GA, GM, GM, ML, MR, NE, SN, TD, TG
DE 19945594 A1 20010329 DE 1999-19945594 19990923 DE 20003199 CP 1228053 A1 20010319 CZ 0200-3188759 20000319
EF 1228053 DE CONTROL OF CON 19990923 <--EP 1228651 A1 20020807 EP 2000-959264 20000919
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, TT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL
JP 2003509505 T 200070425
M2 2002PA02238 A 20030721 MX 2002-PA2838 20020014
US 6818644 B1 20041116 US 2002-PA2838 20020014
LTTY APPLN, INFO: JP 3908034 MX 2002PA02838 US 6818644 PRIORITY APPLN, INFO.: MX 2002-PA2838 US 2002-89024 DE 1999-19945594 WO 2000-EP9146 20020314 20020701 19990923 20000919

OTHER SOURCE(S): MARPAT 134:266313

Compds, of formula 1 (wherein, n is 1-5; m is 1 or 2; X is a bond, O, CH2(CH2), imino or N-alkyl-imino; R1 is (substituted) aryl or heteroaryl; R2, R3 are hydrogen or alkyl; R6, R7 are N, (fluorolalkyl, cycloalkyl, Ph, heteroaryl, etc., or NR6R7 may form a 3-7 membered ring.). Thirty eight examples of I are prepared (e.g. II). Compound II was prepared by alkylation AΒ

9-fluorenecarboxylic acid with 1,4-dibromobutane. The alkylated intermediate was converted to its acyl chloride derivative, and treated with 2,2.2-trifluorecethylamine to provide pivotal intermediate, 9-(4-bromobutyl)-9H-fluorene-9-(2,2.2-trifluorocethylcarboxamide). Alkylation of 1-phenylpiperazine with this intermediate yields II. Three solid oral dosage formulations of compds. I are disclosed. Compds. of

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#### 10/513699

337530-61-7P 337530-62-8P RL: RCT (Reactant): SPN (Synthetic preparation): PREP (Preparation): RACT (Reactant or reagent) (preparation of substituted dipeptides having NOS inhibiting activity) 337530-61-7 CAPLUS

1-Piperazinecarboxylic acid, 3-methyl-4-phenyl-, 1,1-dimethylethyl ester (CA INDEX NAME)

337530-62-8 CAPLUS
Piperazine, 2-methyl-1-phenyl-, hydrochloride (9CI) (CA INDEX NAME)

●x HCl

REFERENCE COUNT: THERE ARE 1 CITED REPERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 18 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN 228874 CAPLUS

NPLUS COPYRIGHT 2007 ACS on STN
2001;228974 CAPLUS
134:265313
Preparation and use of substituted piperazine
derivatives as MTP inhibitors
Lehmann-Lintz, Thorsten; Heckel, Armin; Thomas, Leo;
Mark, Michael
Boehringer Ingelheim Pharma K.-G., Germany
PCT Int. Appl., 70 pp.
CODEN: PIXXD2
Patent. ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

INVENTOR (S) :

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PA:	LENL	NO.			KIN	D	DATE			APPL	CAT	ION .	NO.		D.	ATE		
						-									-			
WO	2001	0216	04		A1		2001	0329		WO 2	000-	EP914	16		2	0000	919	
	₩:	AE,	AG,				AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,	
		CR,	CU,	CZ,	DE.	DK,	DM,	DZ,	EE,	ES,	FI,	GΒ,	ΦD,	GE,	GH,	GM,	HR,	
		HU,	ID,	IL.	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,	LS,	LT,	
		LU,	LV,	MA,	MD,	MG,	MK,	MIN,	MW,	MX,	MZ,	NO,	NZ,	PL,	PT,	RO,	Rυ,	

<12/04/2007>

Brich Leese

## 10/513699

formula I are said to be inhibitors of the microsomal triglyceride-transfer protein (MTP). Use of compds. I to prepare drugs which lower plasma levels of atherogenic lipoproteins is claimed. 311767-25-8.

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation and use of substituted piperaxine derivs.) 311767-25-0 CAPLUS 9H-Pluorene-9-carboxamide, 9-{4-{3-methyl-4-(4-methylphenyl)-1-piperaxinyl]butyl]-N-(2,2,2-trifluoroethyl)- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

THERE ARE 4 CITED REPERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT REFERENCE COUNT:

L9 ANSWER 19 OF 134 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

CAPLUS COPYRIGHT 2007 ACS on STN
2001.20822 CAPLUS
2001.20822 CAPL INVENTOR (S) :

PATENT ASSIGNEE(S); SOURCE:

DOCUMENT TYPE: English

<12/04/2007>

Erich Leese

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DATE
       PATENT NO.
                                                                       APPLICATION NO.
                                         KIND
                                                   DATE
      WO 2000-US24962
                                                                                                             20000913 <--
                                                                                                             20000913 <--
                                                                                                             20000913 <--
20000913 <--
                                                                                                       20000913
20000914
20020313 <--
20020313 <--
20020321
20021223
20060721
A1 19990914
P 19990914
P 20000913
A3 20021223
ES 2209995
TW 510060
NO 2002001251
MX 2002PA02695
ZA 2002001762
US 7125903
US 2007004695
PRIORITY APPLN. INFO.;
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MO 2000-223962 W 20000913

R SOURCE(S): MARPAT 134:237472

RZOCH2CRIR2CH2NR3R4 [I; R = e.g., thieno[2,3-d]isoxazol-3-yl; R1 = OH or alkoy, R2,R4 = H or alkyl; R3 = CH2R5, CH2CH(OH)R5, indamyl, etc., R5 = cyclohex(en)yl, (heterolaryl, etc., Z = phenylenel were prepared Thus, 3-bromothiophene was acylated by 3-(Meol)C6H4COC1 and the oximated product cyclized to give, after O-demethylation, 3-RC6H4ON [R = thieno[2,3-d]isoxazol-3-yl] which was etherified by (R)-glycidyl tosylate and the product aminated by PhCHMeNN12 to glyce (R)-3-RC6H4OCH2CH(OH)CH2NMeCH2Ph (R as above). Data for biol. activity of I were given.

130651-02-0P

RL: BAC (Biological activity or effector, except adverse), BSU (Biological study, unclassified), SPN (Synthetic preparation), THU (Therapeutic use), BIOL (Biological study), PREP (Preparation); USES (Uses)

(preparation of 1-amino-3-thienoisoxazolylphenoxy-2-propanols as dopamine D4 antagonists) OTHER SOURCE(S):

antagonists) 330651-02-0 CAPLUS 1-Piperazineethanol, 4-(4-methoxyphenyl)-3-methyl- $\alpha$ -[(3-thieno[2,3-dlisoxazol-3-ylphenoxylmethyl]-, ( $\alpha$ R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry

<12/04/2007>

Erich Leese

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RN: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
CN 1373754 A 20000810 CN 2000-812860 20000810 c  
EP 1202968 A2 20020508 BP 2000-9379061 20000810 c  
EP 1202968 A2 20020508 BP 2000-949820 20000810 c  
IE, SI, FI, RO, CY
RR 2000031312 A 2002611 BR 2000-13112 20000810 c  
TR 2002003102 A 2002611 TR 2002-160 20000810 c  
TR 2002003104 A2 20021218 HD 2002-2514 20000810 c  
JP 20032056438 T 20031023 AD 2002-515301 20000810 c  
AU 766881 BZ 20031023 AD 2000-517239 20000810
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                                                                                                                                                                                                                         BR 2000-13112
TR 2002-2614
HU 2002-2514
JP 2001-515301
AU 2000-63080
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CN 2005-10081198
RU 2002-106409
CA 2007-1007164
AU 2002-1093
MO 2002-621
MX 2002-PA1394
US 2002-933788
                     HR-2000013112
TR 200200360
HU 200202514
JP 2003506438
AU 766881
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NO 2002000621
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US 6846825
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US 6846825
US 2005065095
US 7186719
PRIORITY APPLN, INFO.:
                                                                                                                                                                20050324
20070306
                                                                                                                                                                                                                         GB 1999-18869
GB 1999-27093
CN 2000-812860
WO 2000-GB3078
US 2002-49131
                                                                                                                                                                                                                                                                                                                                 W 20000810
A3 20020710
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MO 2000-0B3078 N 20000810

R SOURCE(S):

MARPAT 134:163065

Selected compds. QCH(R1)CH(R2)C(O)A (1) and pharmaceutical and veterinary compns. comprising such compds are antibacterial agents with respect to a range of Gram-pos. and Gram-neg. organisms. In I, Q = -N(OH)C(O)H or -C(O)NN(OH), R1 = N, C1-C6 alkyl) or C1-C6 alkyl substituted by 2 halogen atoms, or, except when Q is -N(OH)C(O)H, hydroxy, C1-C6 alkylamino, R2 = substituted or unsubstituted C1-C6 alkylamino, C1-C6 alkylamino, R2 = substituted or unsubstituted C1-C6 alkylamino, R2 = substituted or unsubstituted C1-C6 alkylamino, R2 = substituted or and A = -NRCHREC(O)NRSK or -NRSR6, wherein R4 = side chain of a natural or non-natural \(\alpha\)-amino acid, and R5 \(\alpha\) n R6 when taken together with the N atom to which they are attached form a saturated heterocyclic lat ring of 5 to 7 atoms (piperidine and piperazine in the examples). In general, the compds, of the examples are more active against the Gram pos. S. capitis than the Gram neg. E. coli. Test results are also reported for 2R-cyclopentylmethyl-3: (formylhydroxyamino)-N-(15-(4-(4-(4-hydroxypiperidine-1-carbonyl))-phenoxylpiperidine-1-carbonyl})-2.2-dimethylpropyl)propionamide against certain respiratory tract pathogens. Although the methods of preparation are not claimed, apprx.95 example prepns. Although the methods of preparation are not claimed, apprx.95 example prepns.

are included.

J2795-50-4P. ZR-((Pormylhydroxyaminolmethyl)hexanoic acid

(18-14-(4-methoxyphenyl)-3-methylpiperaine-1-carbonyl]-2,2dmethylpropyl]amide J35795-56-0P. N-Hydroxylmethyl

dmethylpropyl]amide J35795-56-0P. N-Hydroxylmethyl

methoxyphenyl)-1-methylpiperaine-1-carbonyll-2,2dmethylpropyl]amide J35795-56-0P. N-Hydroxylmethyl

methoxyphenyl)-1-methylpiperaine-1-carbonyll-2,2methoxyphenyll-1-methylpiperaine-1-carbonyll-2,2methoxyphenyll-1-methylpiperaine-1-carbonyll-2,2methyl-1-methylpiperaine-1-carbonyll-2,2methyl-1-methylpiperaine-1-carbonyll-3include-1-carbonyll-3-methyl-1-piperainyllcarbonyll-2,2-dimethylpropyll-. (2R)- (9CI) (CA

INDEX NAME)

Erich Leese

10/513699

35947-12-7, 1-(4-Methoxyphenyl)-2-methylpiperazine
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of 1-amino-3-thienoisoxarolylphenoxy-2-propanols as dopamine D4
antagonists)
35947-12-7; CAPLUS
Piperazine, 1-(4-methoxyphenyl)-2-methyl- (9CI) (CA INDEX NAME) IT

REFERENCE COUNT: THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 20 OF 134 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE: CAPLUS COPYRIGHT 2007 ACS on STN
2001:115118 CAPLUS
134:163065
Preparation of hydroxamic acid and N-formyl
hydroxylamine derivatives as antibacterial agents
Pratt, lisa Marie; Keavey, Kenneth Noel; Pain, Gilles
Denis; Mounier, Laurent France,
British Blotech Pharmaceuticals Limited, UK
PCT Int. Appl., 101 pp.
CODEN: PIXKD2
Table PIXKD2 INVENTOR (S) :

PATENT ASSIGNEE(S):

DOCUMENT TYPE:

Patent English PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

APPLICATION NO. PATENT NO. DATE WO 2001010834 WO 2001010834

010834 A2 20010215 MO 2000-083078 20000810 <-010834 A3 20010628
AE, AU, BR, BY, CA, CN, CZ, DZ, EE, GB, GE, HU, ID, IL, IN, IS,
JP, 'KE, KR, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, US, VN, 2A, ZM

<12/04/2007>

Erich Leese

10/513699

Absolute stereochemistry

325795-56-0 CAPLUS
Piperazine, 4-[(IZR)-2-[(formylhydroxyamino)methyl]-1-oxohexyl]-1-(4methoxyphenyl)-2-methyl- (9C1) (CA INDEX NAME)

ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

INVENTOR (S) :

ANSWER 31 OF 134 CAPLUS COPYRIGHT 3007 ACS on STN
2000:824220 CAPLUS
2000:824220 CAPLUS
134:17395
214:17395
215:17395
216:17395
2170:17395
2170:17395
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DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. APPLICATION NO. KIND DATE DATE MO 2000069821 A1 20001123 MO 2000-US6719 20000515 M: AB, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CM, CR, GH, GM, HR, HU, LR, LS, LT, LU, RO, RU, SD, SE, UZ, VN, YU, ZA, ZW BE, CH, CY, DE, SE, BF, BJ, CP, 20000512 20000515 <--20000515 <--SE, MC, PT, 7, GK, IT, LT, LU
BR 2000-10562
BR 2000-10562
AU 2000-47970
AV 2000-515217
ZA 2001-9006
MM 2001-PA11563
MM 2001-PA11563
US 1993-111837
US 2000-570731
US 1998-95147P
US 1998-101080P
US 1998-101080P
US 1998-25048
WO 2000-US6719 20000515 20000515 20000515 20000515 20000515 20011031 20011113 <--20011113 20011113 A 19990514 A 20000512 P 19971114 P 19980804 P 19980918 B2 19990224 W 20000515

OTHER SOURCE(S):

MARPAT 134:17399

A treatment process is disclosed that comprises administering an effective amount of an aromatic sulfone hydroxamic acid I [W = H, cation, certain acyl or thioscyl groups, m, n, p = 0-2; (m.n.p) = 1 to 4; one of X, Y, and Z = CO.

NM or derive.. O, S, SO, SO2, etc., and the other two = (un)substituted CH2; or X2 or XY = (un)substituted MHCO. NHSO, NHSO2, SS, OCO, etc., and the other one = (un)substituted CH2; or n = 0 and XZY = atoms to complete various N/O/S heterocycles; 0 = 5 to 7-membered heterocycle with 1-2 N atoms, one bound to Ph, and with -ARZY bound in paratype positions, A =

<12/04/2007>

Erich Leese

10/513699

REPERENCE COUNT:

THERE ARE 5 CITED REPERENCES AVAILABLE FOR THIS RECORD, ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 22 OF 134 CAPLUS

ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

API.US COPYRIGHT 2007 ACS ON STN 2000.638119 CAPLUS 133:22278 133:22278 Preparation of 1-[(2-arylindol-3-yl)-1-coxalkyl]piperazines as antagonists of tachykinins Chapman. Kevin T.; Dinnell, Kevin; Elliott, Jason Matthew, Hollingworth, Gregory John; Hutchins, Steven Michael; Shaw, Duncan Edward; Willoughby, Christopher Alan INVENTOR (S): . 

PATENT ASSIGNEE(S):

SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

AIN DATE APPLICATION NO. DATE

A1 2000908 WO 2000-GB650
AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MM, MM, MX, NO, NZ, FL, FT, RO, RU, SD, SE, BG, SI, TH, TR, TT, TZ, UA, UG, US, UZ, VM, VU, ZA, ZM, AM, KZ, MD, RU, TJ, TM, LS, MM, BD, SL, SZ, TZ, UG, ZM, AT, BE, CH, CY, DE, FF, GB, GR, IE, IT, LU, MC, NL, FT, SE, BF, BJ, CF, GA, GN, GM, ML, MM, NE, SN, TD, TO

B1 20010211 GB 1991-914893 GD 1991-9100 AB 19990304 MC 2000-GB650 W 20000223 PATENT NO. KIND DATE APPLICATION NO. DATE 20000223 <-WO 2000051984 WO 200051984
W: AE, AL, AM,
CZ, DE, DK,
IN, 18, JP,
MD, HG, MK,
SK, SL, TJ,
AZ, BY, KG,
RM: GH, GM, KE,
DK, ES, TG,
CG, CI, CM,
US 6518273
PRIORITY APPLH. 1NPO:

OTHER SOURCE(S):

Dond, O. S. (unlaubstituted NH. COO, CCO, CH:CH. C.tplbond.C. N:N, NHNH, NHCOO, (un) substituted CONH, NHCO, etc., R = alkylene, arylene, heteroarylene, etc., with provisor, E. Dond, CONH, NHCOO, SO2, NHSO2, BOZNI, S. etc., Y = absent condition and shoot of the provisor of the provisor

35947-12-7, 1-(4-Methoxyphenyl)-2-methylpiperarine
RL: RCT (Reactant), RACT (Reactant or reagent)
(starting material, preparation of aromatic sulfone hydroxamic acide as metalloprotease inhibitors)
35947-12-7 CAPLUS

Piperazine, 1-(4-methoxyphenyl)-2-methyl- (9CI) (CA INDEX NAME)

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The title compds. [I, Rla, Rlb = H, alkyl, alkoxy, etc.; R2 = H, alkyl, fluoroalkyl, etc., R3 = (un)submitted Ph, biphenyl, naphthyl, R4 = H, alkyl, O (to form carbonyl), etc., R5 = alkyl, cycloalkyl, cycloalkyl, etc., X = O, g, n = 1-4] and their pharmaceutically acceptable salts which are potent receptor antagonists of tachyklning, especially of the neurokinin-1 (substance P) receptor (no data), and useful in the treatment or prevention of depression, anxiety, pain, inflammation, migraine, emessi or postherpetic neuralgla, were prepared E.g., a synthesis of the piperazine I [Rla = 5-Me, Rlb = H, R2 = H, R3 = 4-BrC6H4; R4 = H, R5 = 2-MeoC6H4; X = O, n = 2] was given. Compds. I are effective at 0.05-10 mg/kg/day in the treatment of conditions associated with an excess of tachykining.
290830-78-3P 290830-83-0P 290831-26-4P
R1. BAC (Biological activity or effector, except adverse), BSU (Biological

290830-78-JP 290830-83-0P 290831-36-4P
RL: BAC (Biological activity or effector, except adverse), BSU (Biological study, unclassified); SPN (Synthetic preparation), THU (Therapeutic use), BIOL (Biological study), PREP (Preparation); USRS (Usea)
[(preparation of 1-i(2-arylindol-3-yl)-1-oxoalkyl)piperatines as antagonists of tachykinins)
290830-78-3 CAPLUS
Piperarine, 4-[3-[2-(4-bromophenyl)-5-methyl-1H-indol-3-yl]-1-oxopropyl]-1-(4-methoxyphenyl)-2-methyl- (901) (CA INDEX NAME)

20033-83-0 CAPLUS Piperazine, 4-[3-[3-(4-bromophenyl)-5-methyl-1H-indol-3-yl)-1-oxopropyl)-1-(4-chlorophenyl)-2-methyl- (9CI) (CA INDEX NAME)

Erich Leese . <12/04/2007>

Brich Leese

<12/04/2007>

290831-26-4 CAPLUS
Piperazine, 4-[3-[2-(4-bromophenyl)-5-methyl-1H-indol-3-yl]-1-oxopropyl]-1(3-chlorophenyl)-2-methyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

INVENTOR (S) :

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
ANSWER 23 OF 134

CAPLUS COPYRIGHT 2007 ACS on STN
2000;608722 CAPLUS

2001;608722 CAPLUS

2018;193079

Preparation of arylsulfonylheterocyclylhydroxamic acids and related compounds as matrix metalloprotease inhibitors

Barta. Thomas E., Becker, Daniel P.; Bedell, Louis J.; Bochm. Terri L.; Carroll, Jeffery N.; De Crescenzo, Gary A.; Fobian, Fvette M.; Freskos, John N.; Getman, Daniel P.; McDonald, Joseph J.; Hanson, Gunnar J.; Mockerman, Susan L.; Howard, Susan C.; Kolodiej, Steve A.; Ll, Hul; Mischke, Deborah A.; Rico, Joseph G.; Stehle, Nathan W.; Tollefson, Michael B.; Vernier, William F.; Villamil, Clara I.; Rao, Shashidahar N. G.D. Searle and Co., USA

CE: CODEN, PIXXD2

Patent
UMAGE:

HANGE:

HORD TOTAL TYPE:

HORD TOTAL

PATENT ASSIGNEE(S):

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

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Erich Leese

10/513699

treated with hydroxybenzotriazole, EDC, 4-methylmorpholine, and aqueous NH2OK to give title compound I. I inhibited MMP-2 with ICSO = 0.2 mM. Pharmacol., pharmacokinetic. and toxicol. data are given for selected

35947-12-7
RE: RCT (Reactant); RACT (Reactant or reagent)
(preparation of arylsulfonylheterocyclylhydroxamic acids and related compds.
as matrix metalloprotease inhibitors)
35947-12-7 CAPLUS
Pleprazine. 1-(4-methoxyphenyl)-2-methyl- (9CI) (CA INDEX NAME)

REPERENCE COUNT:

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

DATE .....20000125 <--

CAPLUS

L9 ANSWER 24 OF 134 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE;

APLUS COPYRIGHT 2007 ACS on STN
2000:513446 CAPLUS
133:129863
Heterocyclic compound modulators of the CCR5 receptor, preparation thereof, and therapeutic use Bondinell, William E.; Neeb, Michael J.
Smithkline Beecham Corporation, USA
PCT Int. Appl.. 43 pp.
CODEN: PIXXO2
PARENT

INVENTOR(S): PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE:

PATENT NO. KIND DATE APPLICATION NO.

PATENT NO. KIND DATE APPLICATION NO. DATE

WO 2000042852 A1 20000727 WO 2000-US1908 20000125 <-W: AB. AL, AU, BB. BB. BB. BB. BB. RC, AC, N. CZ, EE, GE, GH. GM. HR. HU,
MX. NO. NZ, PL. RO. SG. SI. SK. SL. TR. TT. LV, MA, MG. MK, MN,
MX, NO. NZ, PL. RO. SG. SI. SK. SL. TR. TT. LV, MA, MG. MK, MN,
AC, AM. AZ, BY, KO. KZ, MD. RU, TJ, TM
RM GH. GH. GM. KE. LS, MM. SD. SL. SZ, TZ. UG, ZM, AT, BE, CH. CY, DE,
CG. CI. CM, AG, N. GM. ML, MR, NE, SM. TD. SG.
EP 1146790 A1 20011024 EP 2000-999984 20000125 <-R: AT, BE, CH. DE, DK. ES, FR. GB, GR. TI, LI, LU, NL, SB. MC, PT,
TE, ST, LT, LV, FI, RO
JP 2002505256 T 20021022 JP 2000-594326 20000125 <--

JP 2000-594326 US 1999-117044P WO 2000-US1908 JP 2002535256 20021022 PRIORITY APPLN. INFO.:

<12/04/2007> Erich Leese 10/513699

PATENT NO. KIND DATE APPLICATION NO DATE A1 AT, DM, KE, MC 2000050396

M: AR, AL, AM,
CZ, DR, DR,
IN, 1S, JP,
MD, MG, MK,
SK, SL, TJ,
RN: GH, GM, KE,
LCG, CI, CM,
CS, CI, CM,
US 2001039247

CA 2371876

MU 20020239

EN 2219 WO 2000050396 20000222 <--19990224 <--20000222 <--20000222 <--20000222 <--EP 1230219 IE, SI BR 2000008491 JP 2002537378 NC 2513648 NC 2001001963 ZA 2001006780 IN 2001CN01174 MX 2001PA08568 US 2002177588 20010917 <--

US 6750233 PRIORITY APPLN. INFO.:

OTHER SOURCE(S): MARPAT 133:193079

A process for treating conditions associated with pathol. matrix metalloproteinase (MMP) activity comprises administration of compds. having inhibitors activity against >1 of MMP-2, MMP-3, and MMP-13, while exhibiting substantially less inhibition of MMP-1. The compds, are of the form HONKCOCRIR2502R3 [R1, R2 = H, R12 = atoms to form a 5-8 members ring containing 1-3 heteroacoms, R3 = (substituted) aryl, heteroaryll. Thus, 4-PhoC6H4SH was heated in Me23O to give the disulfide dimer, which in THF was added to a mixture of Et N-tert-butoxycarbonylisonipecotate (preparation given) and LDA in THP at -60° to room temperature to give 40° sulfide, which was oxidized with m-clCeH4CO(COH) to give 59° sulfone. The Bt ester was saponified with NaOH in EtOH/H2O to give 100° acid, which in DMP was

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Brich Leese

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OTHER SOURCE(S):

MARPAT 133:129863

Substituted heterocyclic compds. are provided which are modulators, agonists or antagonists of the CCR5 receptor. Also disclosed is the treatment and prevention of disease states mediated by CCR5, including, but no limited to, asthma and atopic disorders (for example, atopic dermatitis and allergies), rheumatoid arthritis, sarcoidosis and other fibrotic diseases, atherosclerosis, psoriasis, autoimmune diseases such as multiple sclerosis, and inflammatory bowel disease, all in mammals, by the use of substituted heterocyclic compds, which are CCR5 receptor antagonists. Purthermore, since CD8-T cells have been implicated in . COPD, CCR5 may play a role in their recruitment and therefore antagonists to CCR5 could provide potential therapeutic in the treatment of COPD, Also, since CCR5 is a co-receptor for the entry of HIV into cells, selective receptor modulators may be useful in the treatment of HIV infection.

IT 286387-94-8P

RE: BRC (Biological activity or effector, except adverse), BSU (Biological)

286387-94-8P
RE. BAC (Biological activity or effector, except adverse), BSU (Biological study, unclassified); SPN (Synthetic preparation), THU (Therapeutic use), BIOL (Biological study), PREP (Preparation), USES (Uses) (heterocyclic compound modulators of CCRS receptor, preparation, and therapeutic use)
286387-94-8 CAPLUS
1-Piperazinecarboxamide, N-[3-[2-[bis(1-methylethyl)amino]ethoxy]-4-methoxyphenyl]-3-methyl-4-phenyl- (9CI) (CA INDEX NAME)

(i-Pr) 2N - CH2 - CH2 - CH2

REFERENCE COUNT: THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 25 OF 134 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

CAPLUS COPYRIGHT 2007 ACS ON STN
2000:388555 CAPLUS
133:17747
Preparation of 6-O-substituted erythromycins as antibacterial agents
Or. Yat Sun; Clark, Richard F., Ma. Zhenkun; Oriesgraber, George; Li, Leping; Chu, Daniel T. Abbott Laboratories, USA
U.S., 128 pp., Cont.-in-part of U.S. Ser. No. 646,477, abandoned.
CODEN: USXXAM Patent
Patent
English
3 INVENTOR (S):

PATENT ASSIGNEE(S): SOURCE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE US 6075011 CA 2253330 CA 2253330 WO 9742206 20000613 19970429 <--19970506 <--WO 1997-US7702 19970506 <--

<12/04/2007> Erich Leese

#### 10/513699

						CZ, HU,								
	RW:	AT,	BE,	CH,	DE,	DK, ES,	PΙ,	FR, GE	gr,	IE, IT.	LU,	MC,	NL, P	T, SE
UA	97299	87			Α	1997	1126	AU	1997-2	9987		19	97050	6 <
AU	72607	75			B2	2000	1026							
ZA	97038	94			A	1998	0223	ZA	1997-3	894		19	97050	6 <
CN	12244	27			A	1999	0728	CN	1997-1	96134		19	97050	6 <
BR	97089	929			A	1999	0803	BR	1997-8	1929		19	97050	6 <
HU	99028	93			A2	1999	1228	HU	1999-2	893		19	97050	6 <
HU	99028	393			A3	2000	0428							
EP	10075	530			A1	2000	0614	EP	1997-9	24605		19	97050	6 <
EP	10075	530			B1	2005	1116							
	R:	AT,	BE.	CH,	DE,	DK, ES.	FR,	GB, GF	I, IT,	LI, LU	, NL,	SE,	PT, I	E, FI
NZ	33232	20			A	2000	072B	NZ	1997-3	32320		19	97050	6 <
AT	31001	10			т	2005	1215	AT	1997-9	24605		19	97050	6
ES	22527	784			Т3	2006	0516	ES	1997-9	24605		19	97050	6
KR	20000	1080	00		Α	2000	0225	KR	1998-7	708934		19	98110	6 <
PRIORITY	APPI	LN.	INFO	. :				US	1996-6	46477	E	32 19	96050	7
								US	1997-8	41038	7	1 19	97042	9
								WO	1997-0	197702		¥ 15	97050	6

OTHER SOURCE(S): MARPAT 133:17747

Macrolide erythromycins I (R = Me substituted with CN, F, carboxylate, sulfonate, amide, aryl, heteroaryl, substituted alkyl, alkenyl, alkynyl ;X = O, NOH, substituted oxime; Rl = H, OH, R2 = H, OH, halogen, amine, cycloalkyl, alkyl, aryl, oconni-aryl, oconni-heteroaryl; RSR4 = O, NOH, substituted oxime; R5 = OMe, F, OH; R6 = H, hydroxy protecting group) were prepared as antibacterial agents. Thus, I (R = allyl, Rl = R4 = OH, R2 = R3 = R6 = H, R5 = Me, X = O) was prepared and tested in vitro for its antibacterial activity (MIC = O.01 to >100.) 198556-20-6P 198556-43-3P 198556-75-1P 198556-75-1P 198556-43-3P 198556-75-1P 198556-75-1P 198556-75-1P 198556-75-9P 271783-56-3P 271783-56-3P 273212-20-9P 70-9P 273212-20-9P 70-9P 7

<12/04/2007> Erich Leese

198556-75-1 CAPLUS
Erythromycin, 6-0-[2-[3-methyl-4-(4-methylphenyl)-1-piperazinyl]ethyl](9C1) (CA INDEX NAME)

Absolute stereochemistry.

#### 10/513699

198556-20-6 CAPLUS Erythromycin, 6-0-(3-(4-(4-chlorophenyl)-3-methyl-1-piperazinyl)-2-hydroxypropyll- (9CI) (CA INDEX NAME)

## Absolute stereochemistry.

198586-43-3 CAPLUS
Erythromycin, 6-0-[2-hydroxy-3-(4-(4-methoxyphenyl)-3-methyl-1-piperazinyl]propyl)- (9C1) (CA INDEX NAME)

Absolute stereochemistry.

<12/04/2007>

Erich Leese

# 10/513699

198556-78-4 CAPLUS
Erythromycin, 6-0-[2-[4-(4-methoxyphenyl)-3-methyl-1-piperazinyl]ethyl](9CI) (CA INDEX NAME)

# Absolute stereochemistry.

198556-87-5 CAPLUS Erythromycin, 6-0-[2-[4-(4-chlorophenyl)-3-methyl-1-piperazinyl]ethyl]-GCI) (CA INDEX NAMM)

Absolute stereochemistry.

271783-56-3 CAPLUS
Erythromycin, 14-hydroxy-6-0-(2-(3-methyl-4-(4-methylphenyl)-1piperazinyl)ethyl)- (9C1) (CA INDEX NAME)

## Absolute stereochemistry.

271783-59-6 CAPLUS Erythromycin, 14-hydroxy-6-0-{2-[4-(4-methoxyphenyl)-3-methyl-1-piperazinyl|ethyl| (SCI) (CA INDEX NAME)

<12/04/2007>

Erich Leese

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273212-77-4 CAPLUS Erythromycin, 6-0-(3-(4-(4-chlorophenyi)-3-methyl-1-piperazinyl)-2-hydroxypropyl-14-hydroxy- (9CI) (CA INDEX NAME)

## Absolute stereochemistry.

273212-80-9 CAPLUS
RYYLhromycin. 14-hydroxy-6-0-(2-hydroxy-3-(4-(4-methoxyphenyl)-3-methyl-1piperazinyl)propyll- (9CI) (CA INDEX NAME)

Erich Leese

Absolute stereochemistry.

#### 10/513699

#### Absolute stereochemistry.

271783-68-7 CAPLUS
Erythromycin, 6-0-[2-[4-(4-chlorophenyl)-3-methyl-1-piperazinyl]ethyl]-14hydroxy- (9CI) (CA INDEX NAME)

# Absolute stereochemistry.

<12/04/2007> Brich Leese

PAGE 1-B

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REPERENCE COUNT: THERE ARE 11 CITED REPERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 26 OF 134 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE;

RECORD. ALL CITATIONS AVAILABLE IN THE RE PORMAT

CAPLUS COPYRIGHT 2007 ACS ON STN

1000:241115 CAPLUS
132:79106 NON-peptide OnRH agents, methods and intermediates for
their preparation
Anderson, Mark Brian, Vazir, Haresh N., Luthin, David
Robert, Paderss, Genevieve Deguzman, Pathak, Ved P.,
Christie, Lance Christopher, Jong, Yufeng, Tompkins,
Bandown Marmachet, Li, Haltaoy, Pause, James
Popular Marmachet, Li, Haltaoy, Pause, James
Popular Narmachet, 1nc., USA; et al.
PCODEN: PIXKD2
Patent
English
1 INVENTOR (S):

PATENT ASSIGNEE(9): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC, NUM, COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO.

<12/04/2007> Erich Leese <12/04/2007>

Erich Leese

10/513699

263853-32-3 CAPLUS
Piperazine, 1-(4-methoxyphenyl)-2-methyl-4-[[5-[(5,6,7,8-tetrahydro3,5,5,8,8-pentamethyl-2-naphthalenyl)methyl]-2-furanyl]carbonyl]- (9CI)
(CA INDEX MAME)

263855-06-7 CAPLUS
Piperazine, 1-(4-chlorophenyl)-2-methyl-4-[[5-((5,6,7,8-tetrahydro1,5,5,8,8-pentamethyl-2-naphthalenyl)methyl)-2-furanyl]carbonyl]- (9CI)
(CA lMDEX NAME)

L9 ANSMER 27 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:210118 CAPLUS

ITITLE: 12:237107

Preparation of piperazino-substituted cyanophenyl derivatives as antiandrogen agents

Taniguchi, Nobuaki, Kinoyama, Isao: Kamikubo, Takashi; Toyoshima, Akira; Samizu, Kiyohiro; Kawaminami, Eji; Imamura, Masakazu, Moritomo, Hiroyuki, Matsuhisa, Akira; Hirano, Masaaki; Miyazaki, Voji; Nozawa, Eisuke; Okada, Minoru; Koutoku, Hiroshi; Ohta, Mitauaki

PATENT ASSIGNEE(S): Yamanouchi Pharmaceutical Co., Ltd., Japan; et al.

Erich Leese

Mitsuaki Yamanouchi Pharmaceutical Co., Ltd., Japan; et al. PCT Int. Appl., 65 pp. CODEN: PIXXD2 Patent Japanese 1

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC, NUM, CO PATENT INFORMATION: COUNT

10/513699

Non-peptide GnRH agents capable of inhibiting the effect of gonadotropin-releasing hormone are described. The compds, and their pharmaceutically acceptable salts, multimers, prodrugs, and active metabolites are suitable for treating mammalian reproductive disorders and steroid hormone-dependent tumors as well as for regulating fertility, where suppression of gonadotropin release is indicated. The compds, include those of formula I IX -C:Q. C:S. S:Q. or SO2! Het -S-membered NOS-heterocycle; Rl, R2 = H, alkyl, R3-R7 = H, halo, (unlaubstituted Alkyl, aryl, heteroaryl, CH2OR, OR, COZR, R = alkyl, aryl, etc.; adjacent rings positions such as R6R7 may form (unlaubstituted 5- or 6-membered ring with up to 4 heteroatoms; R8 = lipophilic moiety such as alkyl, aryl, ct., adjacent rings positions such as R6R7 may form (unlaubstituted 5- or 6-membered ring with up to 4 heteroatoms; R8 = lipophilic moiety such as alkyl, aryl, ct., CH2OR, OR, ctc., R9 = H, (unlaubstituted alkyl). Methods and intermediates for synthesizing the compds, are also described. For instance, 4,4,7-trimethylchroman (preparation given) was alkylated in the 6- and 8-positions using Rt 5-(chloromethyl)-2-furoate (64 total yield), and the resulting esters were hydrolyzed to a mixture of acids. This unsepd. mixture was treated with SOC12 and amidated with 2,4,6-trimethoxyphenylamine-HC1 to give the invention compound II and its chroman-6-position isomer, which were separated by HBLC. Several compds, exhibited high affinity (<100 nM) at human GnRH receptors. The compds, exhibited high affinity (<100 nM) at human dan example compound reduced plasma LH levels in castrated male rats. Various blol, data for several hundred compds, are given.
261853-05-0P 261853-32-3P 261855-06-PP
RL: BAC (Biological study) PRBP (Preparation), USES (Uses)
(target compound, preparation of non-peptide GnRH agents for regulating gonadotropin secretion)
261853-05-0 CAPLUS
(IDIO (Biological study) PRBP (Preparation), USES (Uses)

<12/04/2007>

Erich Leese

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	2000																	
											BR.							
											GE.							
											LK,							
											RO.							
		SL,	TJ,	TM,	TR,	TT,	TZ,	UA,	UG,	US	UZ,	VN,	YU,	ZA,	ZW,	AM,	AZ.	
		BY.	KG.	KZ.	MD.	RU,	TJ.	TM										
	· RW :	GH,	GM,	KE,	LS,	MW,	SD,	SL,	SZ,	TZ.	. ua,	ZW,	ΑT,	BE,	CH,	CY,	DE.	
		DK,	ES,	PI,	FR,	GB,	GR,	IE,	IT,	LU	MC,	NL,	PT,	SE,	BF.	BJ,	CF.	
		CG,	CI,	CM,	GA,	GN,	GW,	ML,	MR,	NE,	, an,	TD,	TG					
CA	2345	146			A1		2000	0330		CA :	1999-	2345	146		1	9990	921	<
AU	9956	544			Al		2000	0410		AU :	1999-	5654	4		1	9990	921	<
AU	7545	29			B2		2002	1121										
BR	9914	018																
EP	1122	242			A1		2001	0808		EP :	1999-	9434	46		1	9990	921	<
	R:	AT,	BE,	CII,	DE.	DK.	ES,	PR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,	
		IE,	FI															
JF	3390	744			B2		2003	0331		JP :	2000-	5740	73		1	9990	921	
JF	2003	1378						0514		JP :	2002-	3284	98		1	9990	921	
	1129				6			1203		CN :	1999-	8111	98		1	9990	921	
RU	2221	785			C2		2004	0120		RU :	2001-	1076	12		1	9990	921	
	6673										2001-					0010	321	
US	2004	0100	37		A1		2004	0115		us :	2003 -	6083	41		2	0030	630	
PRIORIT	Y APP	LN.	INFO	. :						JP :	1998-	2675	08		A 1	9980	922	
										JP :	1999-	1553	98		A 1	9990	602	
										JP :	2000-	5740	73		A3 1	9990	921	
										WO :	1999-	JP51	49		W 1	9990	921	
										US :	2001-	7876	72		A3 2	0010	321	
OTHER S	OURCE	(S):			MARI	TAS	132:	2371	07									

The title compds. I (T1 = (CH2)n; T2 = (CH2)k; T3 = (NR4Y)mR5; R = cyano, etc.; R1 = W, halo, etc.; R2 - R4 = W, alkyl, etc.; R5 = alkyl, etc.; k, n = 1 - 3; m = 0 or l; X = C0. etc.; Z1, Z2 = CH, N; a proviso is given; Y = alkylene, etc.] are prepared These derive, exhibit antiandrogen activities and are therefore useful in the prevention or treatment of prostatic cancer, prostatic hypertrophy and so forth. In an in vitro assay for inhibition of androgen binding to androgen receptors, (2R, S8) N-(1-bromo-4-pyridyl)-4-(4-cyano-3-trifluoromethylphenyl)-2,5-dimethylpiperarine-1-carboxamide showed the Ki value of 7.5 nM. 262294-07-59
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SBN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study) PREP (Preparation); USES (Uses)
(preparation of piperazino-substituted cyanophenyl derive, as antiandrogen

<12/04/2007> Brich Leese agents) 262294-07-5 CAPLUS 1-Piperazinecarboxamide, (9CI) (CA INDEX NAME) 4-(4-cyanophenyl)-N-(2,4-difluorophenyl)-3-methyl-

REFERENCE COUNT:

17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 28 OF 134 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

CAPLUS COPYRIGHT 2007 ACS on STN
2000:190924 CAPLUS
132:237088
Preparation of fused pyridine inhibitors of cGMP
phosphodiesterase
Macor, John E.; Yu, Guixue
Bristol-Myers Squibb Co., USA
PCT Int. Appl., 113 pp.
CODEN: PIXXD2
PAtent

INVENTOR(S): PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE:

Patent English LANGUAGE

FAMILY ACC. NUM. CO PATENT INFORMATION: COUNT:

APPLICATION NO. PATENT NO. DATE MO 200015222

M: AE. AL.
DE. DK.
JP, KE.
MN. MW.
TM. TR.
RU. TJ.
RW: GH, GM,
ES, PI.
CM
CA 2342583
AU 9961438
AU 751486
EP 1113796
R: AT. BE,
AT. BE, A1 20000323 WO 1999-US21070 19990913
AT. AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,
KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,
NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,
UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, 19990913 <--AM, EE, KG, MX, TT, TM KE, FR. GA, LS, GB, GN, B1 A1 A1 B2 MW, SD, SL, SZ, UG, ZM, AT, BE, CH, CY, DE, QR, IE, IT, LU, MC, NL, PT, SE, BP, BJ, CF, GM, ML, MR, NE, SN, TD, TG 20011204 US 1999-393833 199905 20000323 CA 1999-2342583 199905 20000403 AU 1999-51438 199905 19990910 <--19990913 <--19990913 <--EP 1113796 B2 20020815 19990913 <-EP 1113796 A1 20010711 EP 1999-948211 19990913 <-R: AT, BE, CH, DE, DK, ES, PR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO

PRIORITY APPLM. 1NFO.:

He YAG

Erich Leese

OTHER SOURCE(S): MARPAT 132:237088

<12/04/2007>

10/513699

REFERENCE COUNT: THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSMER 29 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN.
ACCESSION NUMBER: 1999.691093 CAPLUS
DOCUMENT NUMBER: 131:310284
TITLE: Preparation of substituted diamines as 44fil mediated cell adhesion inhibitors
INVENTOR(S): Hecarthy, Clive; Harris, Nell Victor, Morley, Andrew David

David Rhone-Poulenc Rorer Limited, UK PCT Int. Appl., 189 pp. CODEN: PIXXD2 PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: Patent English 1

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO KIND DATE APPLICATION NO. DATE 19991028 WO 1999-GB1230 19990421
AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
FT, GB, GD, GB, GH, GM, HR, HU, ID, IL, IN, IS,
KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,
KZ, LC, T, CY, SD, SE, SG, ST, SK, SL, TJ,
UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, WO 9954321

W: AE, AL, AL

DE, DK, EI

JP, KE, KE,

MN, MH, MO

TM, TR, TT

MD, RU,

RH: GH, GM, KI

ES, FI, CM, GV

AU 9937164

PRIORITY APPLN, INFO: A1 AM, AT, EE, BS, KG, KP, MX, NO, TT, UA, TJ, TM KE, LS, FR, GB, GA, GN, 19990421 <--SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
LU, MC, NL, PT, SE, BP, BJ, CP, CG,
NE, SN, TD, TG
AU 1999-37164 19990421
GB 1999-8431 A 19980421
GB 1999-11417 A 19980421
US 1998-10413PP P 19981014
US 1998-10423PP P 19981014
WO 1999-GB1230 H 19990421 MW, SD, SL, GR, IE, IT, GW, ML, MR, 19991108

Erich Leese

OTHER SOURCE(S): MARPAT 131:310284

10/513699

The title compds. [I or II, B1 = OR1, SR1, NH-A1-cycloalkyl, etc., E2 = NH-A1-alkoxy, NH-A1-CO2alkyl, NH-A1-aryl, etc., R1 = A1-cycloalkyl, A1-alkoxy, NH-A1-CO2alkyl, NH-A1-aryl, etc., X2 = OA1R25, N(RS)AR2S, etc., X3 = OR9, OA10R9, NR9R10, etc., X2 = OA1R25, N(RS)AR2S, etc., X3 = OR9, OA10R9, NR9R10, etc., A1 = unisubstituted alkylene, Y = N, CR6, Z = N, CR7 with the proviso that at least one of Y and Z = N, R3 = H, alkyl, cycloalkyl, etc., R6, R7 = H, alkyl, cycloalkyl, etc., R4 = H, 1 - or 3 -imidazolyl, etc., R4 = a direct bond, alkylene, alkenyl, etc., R5 = Qycloalkyl, aryl, heteroaryl, etc., R5 = N, alkyl, cycloalkyl, aryl, heteroaryl, etc., R8 = R10 = H, alkyl, cycloalkyl, etc., R8, R10 = H, alkyl, cycloalkyl, etc., R8, R10 = H, alkyl, cycloalkyl, etc., R9, R10 = H, alkyl, cycloalkyl, etc., R10 = H, alkyl, cycloalkyl, etc., R9, R10 = H, alkyl, cycloalkyl, etc., R10 = H, etc.,

### Piperazine, 4-[[4-[(iR)-1-cyclohexylethyl]amino]-1-ethyl-1H-pyrazolo[3,4-b]pyridin-5-yl]carbonyl]-1-(4-methoxyphenyl)-2-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

<12/04/2007>

Brich Leese

10/513699

Substituted diamines (I) [wherein R] = lower alkyl or various combinations of substituted diamines (I) [wherein R] = lower alkyl or various combinations of substituents, such as (cyclo)alkyl. (cyclo)alkenyl. (cyclo)alkynyl. (hetero)aryl(alkyl). etc., and linkage groups, such as (i), (Ci), (un) substituted NHC(O) or NHC(S), S(O), SO2, heteroaryldiyl. heterocycloalkylone, phenylone, etc.; R2 = H or lower alkyl; R3 and R4 = independently H or (un)substituted alkyl, alkenyl, or alkynyl, or R3 and R4 = independently H or (un)substituted alkyl, alkenyl, or alkynyl, or R3 and R4 = together may = (Ci2)n or C(O(Ci):Ci3; L1 = alkylene or (un)substituted (CiRIO)pAr(CHRIO)p, or LIN(R3) = (un)substituted alkylheterocyclo, or N(R2)Li1 = (un)substituted heterocyclonkylene, cycloalkylene, alkenylene, alkynylene, cycloalkeylene, or heterocycloalkylene, or heterocycloalkylene

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2007 ACS On STN 1999:350651 CAPLUS L9 ANSWER 30 OF 134 ACCESSION NUMBER:

<12/04/2007>

Erich Leese

DOCUMENT NUMBER: TITLE:

131:18929
Preparation of arylsulfonylheterocyclylhydroxamic acids and related compounds as matrix metalloprotease inhibitors
Barta. Thomas E., Becker, Daniel P.; Boehm, Terri L.; De Crescenzo, Gary A.; Villamil, Clara I., McDonald, Joseph J.; Freskos, John N.; Getman, Daniel P. G.D. Searle and Co., USA
PCT Int. Appl., 840 pp.
CODEN; PIXXD2
Patent
English
5 INVENTOR (S) :

PATENT ASSIGNEE (S) :

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND 19981112 <--

APPLICATION NO. DATE

A1 19990527 WO 1998-US23242 19981112

), A2, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
GB, GD, QE, GH, GM, HR, HU, ID, IL, IS, JP, KE,
LC, LK, LR, LS, LT, LU, LV, ND, MO, MK, MN, MM,
PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR,
UZ, VN, YU, ZW
MM, SD, 32, UG, ZM, AT, BE, CH, CY, DE, DK, ES,
IE, IT, LU, MC, NL, PT, 9E, BF, BJ, CF, CG, CI,
ML, MR, NB, SN, TD, TG

19990527 CA 1998-2306460 19981112 <
19990607 AU 1999-13732 1308\*\*\*

20001003 BR 100-1 PATÉNT NO. XIND I

MO 9925687

M: AL, AM, AT, AU, AD,

KEE, ES, FI GB,

KG, KP, KR, KZ, LC,

MK, NO, NZ, PL, FT,

TT, UA, UG, US, UZ,

RN: GM, GM, KE, LS, MM,

FI, FR, GB, GR, IE,

CM, OA, ON, OM, ML,

CA 2306460

AU 9913732

AU 756150

B2 BR 9814641

A P1042290

R: AT, BE, CH, DE, DK,

JP 2001523662

T NE 503468

RU 2250105

C2 2A 9810412

US 2001014688

AI NO 2000002469

AI XD 2000PA04660

AI XD 2641499

BI YD 2002177588

AI XD 2651313

B2 19981112 <--19981112 <--BR 1993-14643
BR 1998-14643
CB 1998-157485
CB CR 17, Lf LU,
NZ 1998-501485
RU 2000-521071
NZ 1998-194129
US 1998-19412
US 1998-191129
NO 2000-2469
MX 2000-24660
US 2000-554082
US 2001-954451 19981112 <-19981112 <-SE, PT, IE, FI
19981112 <-19981112 <-19981113 <--20030102 20001003 20001011 ES, FR, 20011127 20021025 20050420 19991209 20010816

19981113 <-19981113 <-20000512 <-20000512 <-20000731
20010917 <--20010816 20000712 20010930 20030401 20021128 20040615 20040311 20050510 20060420 NO 200002469
MX 2000PA04660
US 6541489
US 2002177588
US 6750233
US 2004048852
US 6890937
US 2006084688
PRIORITY APPLN. INFO.: US 2003-337942 20030107

US 2005-46645
US 1997-66007P
US 1998-95347P
US 1998-95501P
US 1998-101080P
MO 1998-US21242
US 1999-256948
US 2000-554082
US 2003-337942 20050128 P 19971114 P 19980804 P 19980806 P 19980918 W 19981112 B3 19990224 A3 20000731 A3 20030107

OTHER SOURCE(S): MARPAT 131:18929

<12/04/2007>

Erich Leese

10/513699

DOCUMENT TYPE: LANGUAGE: PAMILY ACC. NUM. COUNT: PATENT INFORMATION: Patent English 2

PATENT NO KIND DATE APPLICATION NO. DATE ENT NO. KIND DATE APPLICATION NO. DATE

9921848 A2 19990506 M0 1998-US22665 19981026

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EB, EB, FT, GB, GE, GH, GM, HR, HU, ID, IL, IB, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MO, MK, MN, MM, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, ST, SK, SL, TJ, TM, TT, TL, UA, US, UZ, VN, YU, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RM, GH, GM, KE, LS, BM, SD, SZ, UO, ZM, AT, BE, CH, CY, DE, DK, ES, FT, FR, GB, GR, IE, LT, LU, MC, NL, PT, SE, SF, BJ, CF, CG, CT, CM, GA, GN, GM, ML, MR, NE, SN, TD, TG

9911223 A 19990517 AU 1999-11223 19981026

A 1991027 AU 1999-11223 19981026 WO 9921848 WO 9921848 19981026 <--

, TD, TG AU 1999-11223 US 1997-958694 WO 1998-US22665 AU 9911223 PRIORITY APPLN. INFO.:

PRIORITY APPLIN. INFO.:

US 1997-958694 A 19971027

WO 1998-US22665 W 19981027

AT Title compds., e.g., R1NR6Z1Z2(CHZ)mR [1, R \* (un)substituted (hetero)aryl, R1 \* (un)substituted 1-isoindolyl, -1-isoquinolyl, etc., R6 = H or alkyl, Z1 \* alkylene, Z2 = piperidine or piperaine-1,4-diyl, m = 0-2) vere prepared Thus, 1-chloroisoquinoline was aminated by 4\*(5\*fluoro-2-pyrimidinyl)-1-pyranineethylamine (preparation given) to give I (R \* 5\*fluoro-2-pyrimidinyl, R1 \* 1-isoquinolyl, R6 \* H, Z1 \* CHZCH2, Z2 \* piperazine-1,4-diyl). Bata for biol. activity of I were given.

IT 186345-30-2P

R1: BAC (Biological activity or effector, except adverse), BSU (Biological study; unclassified); SPN (synthetic preparation); USES (Uses)

[Diological study); PREP (Preparation); USES (Uses)

[preparation of 1-f(isoindolyl- and isoquinolylaminolalkyl]-4 arylpiperazines and analogs as dopamine D4 receptor ligands)

RN 186345-30-2 CAPLUS

CN 1H-1Solindol-1-amine, N-[3-(3-methyl-4-phenyl-1-piperazinyl)propyl)-, dihydrobromide. (9C1) (CA INDEX NAME)

●2 HBr

<12/04/2007>

L9 ANSMER 12 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1999:235769 CAPLUS
DOCUMENT NUMBER: 130:336083
Hybridized and isosteric analogs of
N1-acetyl-N4-dimethylpiperazinium iodide (ADMP) and
N1-phenyl-N4-dimethylpiperazinium iodide (DMPP) with
central nicotinic action

Erich Leese

10/513699

A process for treating conditions associated with pathol. matrix metalloproteinase (MMP) activity comprises administration of compds. having inhibitory activity against >1 of MMP-2, MMP-9, and MMP-11, while exhibiting substantially less inhibition of MMP-1. The compds. are of the form HORHCOCRIR2SO2R3 [R1, R2 = H, R1R2 = atoms to form a 5-8 membered ring containing 1-3 heteroatoms, R3 = (substituted) arryl, heteroaryll. Thus, 4-PhOC6H4SH was heated in Me2SO to give the disulfide dimer, which in THF was added to a mixture of Et N-tert-butoxycarbonylisonipecotate (preparation given) and LDA in THF at -60° to room temperature to give 40° sulfide, which was oxidized with m-CloSH4CO(OOH) to give 59° sulfone. The St ester was asponified with MORH in ExpH/H2O to give told acid, which in DMF was treated with hydroxybenzotriazole, EDC, 4-methylmorpholine, and aqueous NNI2OH ogive title compound (1). I inhibited MMP-2 with ICSO = 0.2 mM. 35947-12-7

35947-12-7

RL: RCT (Reactant): RACT (Reactant or reagent)
(preparation of arylsulfonylheterocyclylhydroxamic acids and related compds.
as matrix metalloprotease inhibitors)
35947-12-7 CAPLUS
Piperazine, 1-(4-methoxyphenyl)-2-methyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT: THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD, ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 31 OF 134 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

CAPLUS COPYRIGHT 2007 ACS on STN
1999:297413 CAPLUS
130:311821
Preparation of 1-[(isoindoly1- and isoquinolylaminolalkyl]-4-arylpiperazines and analogs as dopamine D4 receptor ligands
He, Xiao-shu, De Coota, Brinn; Masley, Jan W. F.
Neurogen Corporation, USA
PCT Int. Appl., 48 pp.
CODEN: PIXXD2 INVENTOR (S) : PATENT ASSIGNEE(S): SOURCE:

<12/04/2007>

Erich Leese

10/513699

Manetti, Dina, Bartolini, Alessandro, Borea, Pier Andrea, Bellucci. Cristina, Dei, Silvia, Ghelardini, Carla, Gualtieri, Fulvio; Romanelli, Maria Novelle, Scapecchi, Serena, Teodori, Elisabetta, Varani, Katla Dipartimento di Science Parmaceutiche, Universita di Firenze, Plorence, Sol21, Italy Bioorganic & Medicinal Chemistry (1999), 7(3), 457-465
CODEN, BMECEP, ISSN, 0968-0896
Elsevier Science Ltd.

CORPORATE SOURCE:

SOURCE:

PUBLISHER:

COENT: BMCERF, ISSN: 0968-0896

PUBLISHER:

Blsevier & Cience Ltd.

Journal

LANGUAGE:

Righish

A series of piperasine derivs., obtained by hybridization of

N1-actyl-N4-dimethylpiperaxinium lodide (ADMP) and N1-phenyl-N4dimethylpiperaxinium lodide (DMPP) or of the corresponding tertiary bases
with arecoline and arecolone or by isoateric substitution of the Ph ring
of DMPP, has been synthesized. Hybridization afforded compds. that, both
as tertiary bases and as lodomethylates, have no affinity for the
nicotinic receptor. On the contrary, isoateric substitution gave compds.
that easintain Affinity for the receptor; among them. 1-methyl-4-(3- or

- pyridinylpiperaxine show affinity in the nenomolar range for the
nicotinic receptor.

The composition of the proper of the property of the contral effects, suggesting that they interact with different subtypes of
the nicotinic receptor.

The contral effects, suggesting that they interact with different subtypes of
the nicotinic receptor.

The contral effects are they recept adversely BSU (Biological
Study unclassified), RCT (Reactant), SPN (Gynthetic preparation), BIOL
(Biological study), PREP (Preparation), RACT (Reactant or reagent)
(hybridized and isosteric analogs of N1-acetyl- and
N1-phenyl-N4-dimethylpiperaxinium iodide with central nicotinic action)
RN 224189-00-8 CAPLUS

22-Piperaxinecarboxylic scid, 4-methyl-1-phenyl-, methyl ester (9CI) (CA
INDEX NAME)

2-Piperazinecarboxylic acid, 4-methyl-1-phenyl-, methyl ester (9CI) (CA

224189-02-0 CAPLUS 2-Piperarinecarboxylic acid. 4-methyl-1-phenyl-, ethyl ester (9CI) (CA INDEX NAME)

<12/04/2007> Brich Leese

224189-13-3 CAPLUS Ethanone, 1-(4-methyl-1-phenyl-2-piperazinyl)- (9C1) (CA INDEX NAME)

224189-15-5 CAPLUS 1-Propanone, 1-(4-methyl-1-phenyl-2-piperazinyl)- (9CI) (CA INDEX NAME)

224189-01-9P 224189-03-1P 224189-14-4P
224189-16-6P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(hybridized and isosteric analogs of N1-acetyl- and N1-phenyl-N4-dimethylpiperazinium iodide with central nicotinic action)
224189-01-9 CAPLUS
Piperarinium, 3-(methoxycarbonyl)-1,1-dimethyl-4-phenyl-, iodide (9CI)
(CA INDEX NAME)

224189-03-1 CAPLUS Piperazinium, 3-(ethoxycarbonyl)-1,1-dimethyl-4-phenyl-, iodide (9CI) (CA TNDRY NAME)

<12/04/2007>

Erich Leese

AITTHOR (S) .

Isosteric Analogs of Imidazoline
Le Bihan, Gaeelle, Rondu, Prederic, Pele-Tounian,
Agnes, Wang, Xuan, Lidy,
Garogae, Henry Lack,
Prediffer,
Brunoz, Renard, Pierre, Guardola, Lemaitre, Beatrice,
Manchez, Dominique, Penicaud, Luc, Ktorza, Alain,
Godfroid, Jean-Jacques
Laboratoire de Pharmacochimie Moleculaire et Systemes
Membranaires, Universite Paris 7-Denis Diderot, Paris,
75251, Fr.
Journal of Medicinal Chemistry (1999),
42(9), 1587-1603
CODEN: JMCMAR, ISSN: 0022-2623
American Chemical Society
Journal

CORPORATE SOURCE:

PUBLISHER: DOCUMENT TYPE:

LANGUAGE: AB Pipe

CODEN: JMCMAR, ISSN: 0022-2623
American Chemical Society
JOHENT TYPE:
JOHENT TYPE:
JOHENT TYPE:
JOHENT TYPE:
Structure-activity relationship studies in a series of
1-benzyl-4-alkyl-2-(4-5-dimyor-1'H-imidazol-2-y-1)piperazines resulted
in the identification of 1-methyl-4-(2',4'-dichlorobenzyl)-2-(4',5'dimydro-1'H-imidazol-2-y-1)piperazine, PMS 812 (5-21663), as a highly
potent antidiabetic agent on a rat model of diabetes, mediated by an
important increase of insulin secretion independently of
'02-adrenoeqetor blockage. These studies were extended to find
addnl. compds. in these series with improved properties. In such a way,
substitution of both piperazine N atoms was first optimized by using
various alkyl. branched or not, and benzyl groups. Second, some
modifications of the imidazoline ring and its replacement by isosteric
heterocycles were carried out, proceeding from PMS 912, to evaluate their
influence on the antidiabetic activity. The importance of the distance
between the imidazoline ring and the piperazine skeleton was studied
third. Finally, the influence of the N-benzyl molety was also analyzed
compared to a direct N-Ph substitution. The pharmacol. evaluation was
performed in vivo using glucose tolerance tests on a rat model of type II
diabetes. The most active compds. were 1.4-diisopopyl-2-(4',5'-dihydro1'H-imidazol-2'-yl)piperazine. PMS 847 (6-22068), and 1.4-diisobutyl-2(4',5'-dihydro-1'H-imidazol-2'-yl)piperazine. PMS 849 (8-22375), which
strongly improved glucose tolerance without any side event or hypoglycemic
effect. More particularly, PMS 847 proved to be as potent after po (100
µmol/kg) as after i.p. administration and appears as a good candidate
for clin. investigations. SPM (Synthetic preparation), PREP (Preparation), RACT
(Reactant) or reagent)

(Preparation and antidiabetic activity of and (benzyl)(alkyl)(imidazolyl)pip
erazines and isosteric analogs)

224189-02-0 CAPLUS

2-Piperazinecarboxylic acid, 4-methyl-1-phenyl-, ethyl ester (9CI) (CA

1NDEX NAME)

Erich Leese

10/513699

224189-14-4 CAPLUS Piperazinium, 3-acetyl-1,1-dimethyl-4-phenyl-, iodida (9CI) (CA INDEX NAME)

224189-16-6 CAPLUS Piperazinium, 1.1-dimethyl-3-(1-oxopropyl)-4-phenyl-, iodide (9CI) (CA INDEX NAME)

THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 33 OF 134 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

CAPLUS COPYRIGHT 2007 ACS on STN 1999:234565 CAPLUS 131:18981 131:18981
Design and Synthesis of Imidazoline Derivatives Active on Olucose Homeostasis in a Rat Model of Type II Diabetes 2. Syntheses and Hidological Activities of 1,4-Dialkyl-, 1,4-Dibensyl, and 1-Bensyl-4-alkyl-2-(4',5'-dlhydro-1'H-imidazol-2'-yl)piperazines and

<12/04/2007>

Erich Leese

10/513699

226068-23-1 CAPLUS
2-Piperazinecarboxylic acid, 4-(1-methylethyl)-1-phenyl-, ethyl ester
(9CI) (CA INDEX NAME)

226068-29-7 CAPLUS
2-Piperazinecarboxylic acid, 1-{2-chlorophenyl}-4-methyl-, ethyl ester
(9C1) (CA INDEX NAME)

REFERENCE 'COUNT:

THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

COPYRIGHT 2007 ACS on STN ANSWER 34 OF 134 1999:89740 CAPLUS

ACCESSION NUMBER

AUTHOR (S) :

SOURCE;

DOCUMENT NUMBER: TITLE:

1399:83740 CAPLUS
130:208646
Effect of Modifications of the Alkylpiperazine Moiety
of Trazodone on SHTAA and "I Receptor Binding
Affinity
Giannangeli, Marilena, Cazzolla, Nicola, Luparini,
Maria Rita; Magnani, Maurizio, Mabilia, Massimo;
Picconi, Giuseppe, Tomaselli, Mauro, Baiocchi, Leandro
Department of Medicinal Chemistry, Angelini Ricerche
5.p.A., S. Palomba-Pomezia, 00040, Italy
Journal of Medicinal Chemistry (1999),
42(3), 336-345
CODEN, JAMMAR, ISSN: 0022-2623
American Chemical Society
Journal Faglish

CORPORATE SOURCE:

PUBLISHER: DOCUMENT TYPE: LANGUAGE: GI

<12/04/2007>

Brich Leese

$$\bigcap_{N \in \mathbb{N}} \bigcap_{N \in \mathbb{N}} \bigcap_{N \in \mathbb{N}} C1$$

A series of triazolopyridine derivs, were synthesized in order to explore the effect of modifications of the alkylpiperazine molety of trazodone on binding affinity for SHTZA and m1 receptors. All of the synthesized compds, show a decrease of affinity for both SHTZA and m1 receptors, as compared to trazodone, with the exception of I [R = Me, Rl = Hi, R = H, Rl = Me] empods. Showed a decrease of affinity only for the m1 receptor. The stereochem, influence of the piperazine moiety of I [R = H, Rl = Me] was also evaluated. Ranatiomer [S]-I [R = H, Rl = Me] showed the most significant differences between SHTZA and m1 receptor affinity (IcSO values) and among the corresponding functional properties (pA2 values). Since (S)-I [R = H, Rl = Me] cannot generate the metabolite 4-(3-chlorophenyl)piperazine this product was selected for further pharmacol. studies. Since (S)-I [R = H, Rl = Me] cannot generate the metabolite 4-(3-chlorophenyl)piperazine this product was selected for further pharmacol. studies. SPN (Synthetic preparation); BIOL (Biological study, unclassified). SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (effect of modifications of the alkylpiperazine moiety of Trazodone on SHTZA and m1 receptor binding affinity)

15144-02-I CAPLUS

1.2,4-Triazolo[4,3-a]pyridin-3(2H)-one, 2-[3-(4-(3-chlorophenyl)-3-methyl-1-piperazinyl)propyl]-. monohydrochloride (9CI) (CA INDEX NAME)

220909-95-5 CAPLUS 1.2.4-Triazolo[4,3-a]pyridin-3(2H)-one, 2-[3-[4-(3-chlorophenyl)-3-methyl-1-piperazinyl]-2-methylpropyl}-, (2Z)-2-butenedioate (1:1) (9Cl) (CA

СМ

<12/04/2007>

Erich Leese

10/513699

220910-03-2P
RL: SPM (Synthetic preparation); PREP (Preparation)
(effect of modifications of the alkylpiperazine moiety of Trazodone on
SHT2A and ul receptor binding affinity)
220910-03-2 CAPLUS
Piperazine, 1-(3-chlorophenyl)-2-methyl-, monohydrochloride (9CI) (CA
INDEX NAME)

THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT RECORD. ALL CITATIONS AVAI

L9 ANSWER 35 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 1999:14895 CAPLUS
DOCUMENT NUMBER: 110:95566
TITLE: PROPERTY.

130:95566 Preparation of tropone derivatives for remedies/preventives for frequent urination/urinary

remedies/preventives for frequent urination/uri incontinence Koga, Ichiro; Narita, Kazuhisa; Okada, Atsushi Nippon Kayaku Kabushiki Kaisha, Japan PCT Int. Appl., 69 pp. CODEN: PIXXD2 Patent Japanese 1

INVENTOR(S): PATENT ASSIGNEE(S): SOURCE:

PAMILY ACC. NUM. CO PATENT INFORMATION: COUNT:

NO 9900366 A1 19990107 MO 1998-JP2865 19980626 M: AU, CA, CN, JP, KR, US
RM: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
FT, SE
CA 294312 A1 19990107 CA 1968 CGC. 19980626 <--A1 A B2 A1 PR, B1 CA 1998-2294312 AU 1998-79341 19980626 <--19980626 <--CA 2294312 AU 9879341 AU 736510 EP 995741 R: AT, CH, DE, US 6221868 PRIORITY APPLN. INFO.: 19990119 20010726 20000426 IT, LI, 20010424 EP 1998-929705 19980626 <--GB, SE US 1999-446423 JP 1997-186030 JP 1997-225552 JP 1997-256223 WO 1998-JP2865 19991220 <--19970627 19970808 19970905 19980626 MARPAT 130:95566

Erich Leese

OTHER SOURCE(S):

10/513699

CM 2

CRN 110-16-7 CMF C4 H4 O4

Double bond geometry as shown.

75348-33-3
RL: RCT (Reactant), RACT (Reactant or reagent)
(effect of modifications of the alkylpiperazine moiety of Trazodone on SHT2A and ul receptor binding affinity)

75348-33-3 CAPLUS
Piperazine, 1-(3-chlorophenyl)-2-methyl- (9CI) (CA INDEX NAME)

IT

220909-98-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(effect of modifications of the alkylpiperazine moiety of Trazodone on
SHT7A and ol receptor binding affinity)
220909-98-8 CAPLUS
Piperazine, 4-(3-chloro-2-methylpropyl)-1-(3-chlorophenyl)-2-methyl(CA INDEX NAME) (9CI)

<12/04/2007>

Brich Leese

10/513699

AB Claimed are remedics/preventives for frequent urination/urinary incontinence which contain as the active ingredient compds. having a tropone skeleton or pharmacol. acceptable saits thereof and novel compds, having the tropone skeleton. The compds, having a tropone skeleton and showing the above pharmacol. effects are those represented by, for example, general formula [I R1, R2 = hydrogen, (un)substituted lower alkyl or aryl, R3 = OR6 or NRTRS, wherein R6 = H, (un)substituted lower alkyl, aralkyl, or acyl, R7, R8 = H, optionally) heteroatom-substituted lower alkyl, (un)substituted aralkyl; or R7 and R8 together represent a 5-to 10-membered ring optionally containing 0 or NRS, wherein R9 = H, (un)substituted lower alkyl or aryl, R4 , R5 = H, lower alkyl, R12 = H, lower alkyl; R13 = H, lower alkyl; R14 = H, lower alkyl; R15 = H, lower alkyl; R15 = H, lower alkyl; R16 = H, lower alkyl; R16 = H, lower alkyl; R17 = H, lower alkyl; R18 = H, lower alkyl; R19 = H, lower alkyl; R19 = H, lower alkyl; R10 = H, lower alkyl; R10

atropine-resistant contraction are noticed. Thus, 37% aqueous formalin tion was added to a solution of 8.2 g hinokitiol, 7.8 mL 1-phenylpiperazine, and 2.9 mL AcOH in 5 mL MeOH and heated at 60° fro 2.5 h to give 7-(4-phenylpiperazinomethyl)-2.4.6-cycloheptatrien-1-one derivative (II; R = N), which was ethylated by di-fet sulfated in the presence of K2CO3 in acctone under reflux for 6 h to give II (R = N). II (R = N) and I

<12/04/2007>

phenyl-1-piperazinyl)methyl]- (9CI) (CA INDEX NAME)

2946-76-1P, 2-Methyl-1-phenylpiperazine
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation of tropone derivs, for remedies/preventives for frequent
urination/urinary incontinence)
2946-76-1 CAPLUS
Piperazine, 2-methyl-1-phenyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

THERE ARE 9 CITED REPERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 36 OF 134 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

CAPLUS COPYRIGHT 2007 ACS on STN
1998:604657 CAPLUS
129:245159
Preparation of 1,4-disubstituted piperazines as alpha
la adrenergic receptor antagonists
Book, Marg G., Patane, Michael A.
Merck and Co., Inc., USA
U.S., 18 pp.
CODEN: USXXAM
Patent

INVENTOR (8):

PATENT ASSIGNEE (S); SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC, NUM, COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE US 5807856 PRIORITY APPLN. INPO.: OTHER SOURCE(S): 19980915 19961112 <--US 1996-747687 19961112

MARPAT 129:245169

. STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT .

<12/04/2007>

Erich Leese

10/513699

## ● HC1

135036-22-5P 191156-64-6P
RL: RCT (Reactant): BPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or, reagent)
(preparation of 1,4-disubstituted piperazines as alpha la adrenergic
receptor antagonists)
15016-22-5 CAPLUS
2-Piperazinecarbonitrile, 1-phenyl-4-(phenylmethyl)- (9CI) (CA INDEX
NAME)

191156-64-6 CAPLUS 2-Piperazinecarbonitrile, 1-phenyl-, monohydrochloride (9CI) (CA INDEX

● HC1

<12/04/2007>

THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT REFERENCE COUNT:

Erich Leese

PLUS COPYRIGHT 2007 ACS on STN 1998:352630 CAPLUS 129:27960 ANSWER 37 OF 134 CAPLUS SION NUMBER: 1998: LO ANSW

DOCUMENT NUMBER: TITLE:

Preparation of piperazine derivatives as tocolytic

The title compds. [I or II, W = (un)substituted Ph, pyridyl, thienyl, etc.; Rl, R2 = CN, CONR4RS, COZR4, SOZR4, R3 = III; R4, R5 = H, C1-8 alkyl, C3-8 cycloalkyl; R7 = C1-8 alkyl, iso-Pr, (un)substituted Ph, etc.; T, U, X, Y, Z = H, halo, C1-8 alkyl, etc.; n = 2-6], useful as selective alpha la adrenergic receptor antagonists in treating benign prostatic hyperplasks, were prepared Thus, reaction of piperaxine IV.RCI with amide V in the presence of iPr2NRC in DMF afforded the title compound VI. Representative compds. I and II showed Xi of \$300 nM against alpha la adrenergic receptor binding. Compds. I and II are selective in their ability to relax smooth muscle tissue enriched in the alpha la receptor subtype without at the same time inducing orthostatic hypotension. One such tissue is found surrounding the urethral lining. Therefore, one utility of the instant compds. is to provide acute relief to males suffering from benign prostatic hyperplasia, by permitting less hindered urine flow. Another utility of the instant compds. is provided by combination with a human 5-alpha reductase inhibitory compound, such that both acute and chronic relief from the effects of benign prostatic hyperplasia are achieved.

191156-62-4P 191156-63-5P REPROVED ACCORDINATION OF STANDARD CONDINATION (SMC) (SMC)

10/513699

22-piperazinecarbonitrile, 4-[4-(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)butyl)-1-phenyl-, monohydrochloride (9CI) (CA INDEX NAME)

● HC1

191156-63-5 \_CAPLUS
Benzeneacetamide, N-[3-(3-cyano-4-phenyl-1-piperazinyl)propyl]-4-methyl-(4-methylphenyl)-, monohydrochloride (9C1) \_(CA\_INDEX\_NAME)

<12/04/2007>

Erich Leese

TNURNTOR (S) .

Oxytocin receptor antagonists
Bock, Mark G., Evans, Ben E., Culberson, J.
Christopher, Gilbert, Kevin P., Rittle, Kenneth B.,
Williams, Peter D.
Merck and Co., Inc., USA
U.S., 27 pp., Cont.-in-part of U.S., 5,464,788.

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE:

English 2

PATE	ENT I	NO.			KIN	_	DATE			APPL	I CAT	ION	ΝО.		D.	ATE		
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US !	57565	04			A		1998	0526	- 1	US 1	996-	7184	15		1	9960	23	<
US S	5464	788			Α		1995	1107	1	UB 1	994-:	2172	70		1	9940	24	<
WO S	95254	143			A1		1995	0928	1	40 1	995-1	U937	38		1	950	323	٠
	₩:	AM,	AU,	BB,	BG,	BR,	BY,	CA,	CN,	CZ,	EE,	FI,	GE,	ΚU,	ıs,	JP,	KG,	
		KR,	ΚZ,	LK,	LR,	LT.	LV,	MD,	MO,	MN,	MX,	NO,	NZ,	PL,	RO,	RU,	SQ,	
		SI,	SK,	TJ,	TT,	UA,	US,	UZ										
	RW:	KB,	MW,	SD,	SZ,	UG,	AT,	BE.	CH,	DE,	DK,	ES,	PR,	GB,	GR,	IE,	IT.	
		LU,	MÇ,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	ML,	MR,	NE,	
		SN,	TD,	TG														
PRIORITY	APPI	N.	INFO	. :						US 1	994-	2172	70		A2 1	9940	24	
										NO 1	995-1	US37	3 8		W 1	950	23	

OTHER SOURCE(S):

MARPAT 129;27960

The title compds, I (Y = SO2, (CH2)p,CO(CH2)p, etc.; p = 1-3; R = (un)substituted Ph, etc.; R1 = H, cyano, Ph. CONHR2, CONR2R2, etc.; R2 = H, C2-8 cycloalkyl or C1-5 alkyl; R14, R15 = C1-5 alkyl or alkoxy, halo; R16 = H or oxo) were prepared I are useful as oxytocin and vasopressin receptor antagonists. Thus, spiro(IH)lindene-1.4\*-piperidine.HCl was treated with 2.4-dimethoxy-phenylacetic acid in the presence of EDC, HBT and ELN to give 1'-(2.4-dimethoxyphenylacety)]-spiro(IH)lindene-1.4\*-piperidine, which showed ICSO of 400 mM for (3Hloxycoin, 170923-79-09)
RL: DAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SFN (Bynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation), USES (Uses) (preparation of piperaxine derivs. as tocolytic oxytocin receptor

<12/04/2007> Brich Leese

antagonists)
170929-79-0 CAPLUS
Carbamic acid. [4-{2-{3-(2-hydroxyethyl)-4-(2-methylphenyl)-1-piperaxinyl}-2-oxoethyl)phenyl}-. 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

170930-08-2P 170930-09-3P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation), RACT (Reactant or reagent) (preparation of piperazine derivs. as tocolytic oxytocin receptor

Antagonists) \*
170930-08-2 CAPLUS
2-Piperazinecthanol, 1-(2-methylphenyl)-4-(phenylmethyl)- (9CI) (CA INDEX NAME)

170930-09-3 CAPLUS 2-Piperazineethanol, 1-(2-methylphenyl)- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 38 OF 134 CAPLUS ACCESSION NUMBER: 1998:: DOCUMENT NUMBER: 128:1 TITLE: APLUS COPYRIGHT 2007 ACS on STN
1998:55516 CAPLUS
128:114961
Preparation of tetrahydrobenzindole derivatives for
the treatment or prevention of mental diseases
Koyama, Masao: Kikuchi, Chika; Ushiroda, Osamu; Ando,
Takashi; Nagaso, Kiroshi; Fuji, Kazuyuki; Okuno, INVENTOR (5):

<12/04/2007>

Erich Leese

# 10/513699

trihalomethyl or hydroxy; and n is an integer of from 2 to 6} are prepared 1 strongly inhibit [3H]-serotonin and [3H]-5-CT binding to the human serotonin 5-HT7 receptor subtype expressed in a cultured cell line and are useful for treating or preventing mental diseases. 2A-[4-[4-(2-methoxyphenyl)piperarinyl]butyl]-2a, 3.4,5-tetrahydrobens(cd)indol-2-(1H)-one was prepared from 2a,3.4,5-tetrahydrobens(cd)indol-2-(1H)-one was prepared from 3a,4-5-tetrahydrobens(cd)indol-2-(1H)-one and are subtrahydrobens(cd)indol-2-(1H)-one and

201608-79-5P 201608-76-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of tetrahydrobenzindole derivs. for treatment or prevention of mental diseases)
201608-75-5 CAPLUS
Benz[cd]indol-2(lH)-one, 2a,3.4,5-tetrahydro-2a-[4-(3-methyl-4-phenyl-1-piperazinyl)butyl)-, monohydrochloride (9CI) (CA INDEX NAME)

• HC1

201608-76-6 CAPLUS
Benz[cd]indol-2(1H)-one, 2a,3,4,5-tetrahydro-2a-[4-(3-methyl-4-phenyl-1-piperazinyl)butyl]- (9Cl) (CA INDEX NAME)

S5117-80·1
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of tetrahydrobenzindole derivs. for treatment or prevention of
mental diseases)
S5117-80·1
S5117-80·1
CAPLUS
Piperazine, 1-(4-chlorophenyl)-2-methyl- (9CI) (CA INDEX NAME)

Brich Leese

Masayo, Hiranuma, Toyokazu Meiji Seika Kaisha, Ltd., Japan PCT Int. Appl., 67 pp. CODEN: PIXXD2 PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: Patent

COUNT:

	TENT									APF	LIC	CAT	ON	NO.		D	ATE		
	<i></i>															-			
WO	9800	100			A1		1998	108		WO	19	97-,	JP22	26		1	9970	627	<
	W:	CA,	JP,	NO,	US														
	RW:	AT,	BE,	CH,	DE,	DK,	ES,	PI,	FR,	GE	3, (	JR.	IB.	ır,	LU,	MC,	NL,	PT	, BE
CA	2259	218			A1		1998	108		CA	19	97-:	2259	218		1	9970	627	٠٠٠
CA	2259	2 1 B			c		2006	725											
EP	9377	15			A1		1999	0825		EP	19	97-	284	90		1	9970	627	<
8P	9377	15			B1		2005	0601											
	R:	AT,	BE,	CH,	DE,	DK.	ES,	PR,	GB,	GF	≀, ∶	IT,	LI.	LU,	NL,	SE,	MC,	PT	
		IE,	FI																
AT	2968	01			T		2005	0615		AΤ	19	97-	284	90		1	9970	627	
ES	2243	999			T3		2005	1201		ES	19	97-	284	90		1	9970	627	
NO	9806	141			A		1999	0217		NO	19	98-	5141	ι		1	9981	228	<
NO	3115	15 -			B1		2001	1203											
US	6355	542			<b>B</b> 1		2002	0312		US	19	98-	2141	14		1	9981	228	<
PRIORIT	APP	LN.	INPO	. :						JΡ	19	96-	1697	702		A 1	9960	628	
										JΡ	19	97-	627	71		A 1	9970	415	
										JΡ	19	97-	1302	101		A 1	9970	521	
										JΡ	19	97-	1443	176		A 1	9970	603	
											10		1022	26			9970	627	

OTHER SOURCE(S):

MARPAT 128:114961

The title compds. I lA represents N, CH, C having a double bond or CR5, B and Z independently represent each N, CH or CR1, provided that A is N when B and/or Z is N, R1 represents hydrogen, halogeno, lower alkyl, cyano, trihalomethyl, hydroxy, alkoxy, alkylthio, alkylsulfenyl, alkylaulfonyl, alkoxycarbonyl, sulfamoyl, optionally substituted amino, optionally alkylated carbamoyl, acyl or carboxy, R2 represents hydrogen or lower alkyl, R3 represents hydrogen, lower alkyl, R3 represents hydrogen, lower alkyl, ratalkyl, R4 represents hydrogen, lower alkyl, cyanoly, alkoxy, acyl, alkoxycarbonyl, nitro, optionally substituted amino, optionally alkylated carbamoyl or acyloxy, R5 represents lower alkyl, cyano, carbamoyl, carboxy, acyl, acyloxy, alkoxy, alkoxycarbonyl,

<12/04/2007>

Brich Leese

10/513699

2946-76-1P 201609-32-7P 201609-33-8P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of tetrahydrobenzindole derivs, for treatment or prevention of mental diseases) 2946-76-1 CAPLUS Piperazine, 2-methyl-1-phenyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

201609-32-7 CAPLUS

2-Piperazinecarbonitrile, 1-phenyl- (9CI) (CA INDEX NAME)

201609-33-8 CAPLUS 2-Piperazinecarboxamide, 1-phenyl- (9CI) (CA INDEX NAME)

THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 39 OF 134 ACCESSION NUMBER: CAPLUS COPYRIGHT 2007 ACS ON STN 1998:13943 CAPLUS

<12/04/2007>

Erich Leese

DOCUMENT NUMBER:

128:61522

INVENTOR (S):

128:61522
Preparation of fused heterocyclic compounds as antagonists of D2 and D4 receptors Kuroita, Takanobu, Togo, Yoshifumi, Ishibuchi, Seigo, Pujio, Masakazu, Putamura, Takashi Yoshitomi Pharmaceutical Industries, Ltd., Japan PCT Int. Appl. . 176 pp. CODEN: PIXXD2

PATENT ASSIGNEE (S) :

Patent Japanese 1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC, NUM. COUNT: PATENT INFORMATION: DATE 19971218 PATENT NO. KIND APPLICATION NO. DATE

19970609 <--WO 1997-JP1993 A1 WO 9747601

19970609 <--

AU 1997-29807 JP 1998-501435 JP 1996-149620 WO 1997-JP1993 20040524 PRIORITY APPLN, INFO .:

OTHER SOURCE(S): MARPAT 128:61522

Fused heterocyclic compds, represented by general formula [I, X1-X2-X3 \* NCRIN, CRICR2N, NCRICR2, CRINCR2, NNCR1, R1, R2 \* H. alkyl, OH, NH2, arylalkyl, (un) substituted aryl or 'heteroaryl, A \* linear or branched and (un) substituted C1-4 alkyl, Y \* O, S, 90, SO2, (un) substituted NH; B \* linear or branched alkyl and (un) substituted C1-4 alkyl, Y \* O, S, 90, SO2, (un) substituted NH; B \* O, SO2, (un) substituted NH, CH(OH), CO, CH2; D \* linear or branched alkyl

<12/04/2007>

Erich Leese

55117-80-1
RL: RCT (Reactant), RACT (Reactant or reagent)
(preparation of fused heterocyclic compds. having antagonism for D2 and D4
receptors as antipsychotics)
55117-80-1 CAPLUS
Piperazine, 1-(4-chlorophenyl)-2-methyl- (9CI) (CA INDEX NAME)

200413-37-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation of fused heterocyclic compds. having antagonism for D2 and D4 receptors as antipsychotics)
200413-37-2 CAPLUS
1-Piperaxineacetamide, 4-(4-chlorophenyl)-3-methyl-N-(5,6,7,8-tetrahydro-4-quinazolinyl)- (9CI) (CA INDEX NAME)

Erich Leese

L9 ANSWER 40 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 1997:746060 CAPLUS

10/513699

C1-8 alkylene, R = heterocyclyl, e.g., Ol, wherein O-T = (CH2)n, CH2CH, CH1C; wherein R7 = H, alkyl, R8 = (un)substituted aromatic hydrocarbyl or heterocyclyl or optical isomers or pharmaceutically acceptable salts thereof are prepared Also claimed are medicinal compns. comprising these compds. and pharmaceutically acceptable additives, and drugs comprising these compds. These compds. exert more potent blocking effects on D4 receptors than on D2 receptors. Moreover, they have high affinities for receptors than on D2 receptors. Moreover, they have high affinities for receptors other than dopamine receptors such as muscarine M1, and serotonin-2 (5-H172) and adrenalin u1 and u2 receptors. Thus, these compds. are efficacious against not only pos. symptoms typified by hallucination and defusion characteriss of the total target for such as properties. In addition, they are susful as antipsychotic agents with relieved side effects such as extrapyramidal symptoms and abnormal internal secretion observed in association with the administration of the conventional antipsychotic agents having only D2 receptor antagonism. The above compds. are usable as remedies for diseases such as schizophrenia. Thus, N-(5, 6, 7, 8-testraphydroquinatolin-4-y1)-2-chlorocactemide (preparation given) and N-(4-chlorophenyl)piperazine hydrochloride were dissolved in DNF and stirred with X2CO3 and K1 at room temperature for 24 h to give N-(5, 6, 7, 8-testraphydroquinatolin-4-y1)-2-(4-(4-chlorophenyl)piperazin-1-y1)acctamide, which was reduced by LiAllH in THF at room temperature for 30 min to give the title compound (II). If and another compound tested in vitro showed affinity for D2 and D4 receptors of nerve synapses membrane with ki value of 25 nM and 0.01-1 nM, resp.

200412-33-59
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study), PREP (Preparation), USES (USES) (Uses) (preparation of fused heterocyclic compds. having antagonism for D2 and D4 receptors as antipsychotics)

200412-35-5 CAPLUS
4-Quinazolinamine, N-[2-[4-(4-chlorophenyl)-3-methyl-1-piperazinyl]ethyl}5,6,7,8-tetrahydro- (9CI) (CA INDEX NAME)

<12/04/2007>

Brich Leese

DOCUMENT NUMBER: 127:359051 127:359051
Preparation of 6-O-substituted erythromycins as bactericides
Or. Yat Sun, Clark, Richard F.; Ma, Zhenkun; Griesgraber, George, Li, Loping; Chu, Daniel T. Abbott Laboratories, USA
PCT Int. Appl., 225 pp.
CODEN: PIXXD2
Patent
English
3
3

INVENTOR (S):

PATENT ASSIGNEE(S):

DOCUMENT TYPE: LANGUAGE:

FAMILY ACC. NUM. COUNT: PATENT INPORMATION:

													NO.			ATE		
															-			
	WO	9742	206			A1		1997	1113	WC	199	7-087	702		1	9970	506	<
		W:	AU,	BR,	CA,	CN,	CZ.	HU,	IL,	JP, F	R, M	X, N						
		RW:	AT,	BE,	CH,	DE,	DK.	ES,	PI,	FR, G	B, G	R, II	, IT,	LU,	MC,	NL,	PT,	SE
	US	6075	011			Α		2000	0613	US	199	7-841	038		1	9970	429	<
	CA	2253	330			A1		1997	1113	CF	199	7-225	3330		1	9970	506	<
	CA	2253	330			c		2006	0725									
	AU	9729	987			Α		1997	1126	At	199	7-299	87		1	9970	506	<
	AU	7260	75			B2		2000	1026									
	BR	9708	929			Α		1999	0803	BS	199	7-892	9		1	9970	506	<
	Eb	1007	530			A1		2000	0614	E	199	7-924	605		1	9970	506	<
	EP	1007	530			B1		2005	1116									
		R:	AT,	BE,	CH,	DE,	DK.	ES,	PR,	GB, C	R, I	T, L	LU,	NL,	SE,	PT,	IB,	FI
	NZ	3323	20			Α		2000	0728	N2	199	7-332	320		1	9970	506	<
	JP	2002	5150	34		т		2002	0521	JE	199	7-540	164		1	9970	506	<
	AT	3100	10			т		2005	1215	A7	199	7-924	605		1	9970	506	
PRI	ORTTY	APP	LN.	INFO	. 1					US	199	6-646	477		A 1	9960	507	
										US	199	7-841	038		A 1	9970	429	
										wo	199	7-119	702		W 1	9970	506	

OTHER SOURCE(S): MARPAT 127:359051

Antimicrobial erythromycins, e.g. I (X = 0, NOH, NOR, R = alkyl, aralkyl, cycloalkyl, arylsilyl, Rl, R2 = H, OH, R3 = OMe, P, OH, R4, R5 = one is H and the other is OH, alkyl, aralkyl, sulfone, R4, R5 = X, K6 = H, hydroxy protecting group, R7 = P, alkyl, alkenyl, alkynyl sulfone, amide), were

prepared as bactericides. Thus, I (X = 0, R1 = R4 = OH; R2 = R5 = R6 = OMe, R7 = Pr) was prepared and tested for its in vitro antibacterial activity (MIC = 0,05-100).

19856-20-6P 19856-43-3P 198556-75-1P
19856-24-4P 198556-87-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of 6-0-aubstituted erythromycins as bactericides)
19855-20-6 CAPUS
Erythromycin, 6-0-[3-(4-(4-chlorophenyl)-3-methyl-1-piperazinyl)-2-hydroxypropyl]- (9C1) (CA INDEX NAME)

## Absolute stereochemistry.

198556-43-3 CAPLUS Erythromycin, 6-O-[2-hydroxy-3-[4-(4-methoxypheny1)-3-methyl-1-piperaziny1[propy1]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

<12/04/2007>

Erich Leese

10/513699

198556-78-4 CAPLUS Erythromycin, 6-0-[2-[4-(4-methoxyphenyl)-3-methyl-1-piperazinyl]ethyl]-(9C1) (CA INDEX NAME)

Absolute stereochemistry.

198556-87-5 CAPLUS Erythromycin, 6-0-[2-[4-(4-chlorophenyl)-3-muthyl-1-piperazinyl]ethyl]-[9C1] (CA INDEX NAME)

Absolute stereochemistry.

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PAGE 1-B

PAGE 1-A

198556-75-1 CAPLUS Erythromycln, 6-0-[2-[3-methyl-4-(4-methylphenyl)-1-piperazinyl|ethyl|-[9C1] (CA INDEX NAME)

Absolute stereochemistry.

<12/04/2007>

Brich Leese

10/513699

DOCUMENT TYPE: LANGUAGE: PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

APPLICATION NO. DATE

19970404 <-18. BY. CA. CH. CN. CU. CZ. DE.
18. JF. KE. KG. KF. KR. KL. LC.
KK. MM. MM. MO. NO. RZ. FL. FT.
TH. TT. UA. UG. UZ. VN. YU.
BE. CH. DB. DK. ES. FT. FR. GB.
BF. BJ. CF. CG. CI. CH. CT. PATENT NO. KIND DATE MO 9737975
M1 AL. AM.
DIE E.
Lik. LR.
RO, M.
AM. D2.
RI GOH. KE.
GR. IE.
DE 19614204
M2 5994356
CA 2244860
EP 892783
R: AT, BE,

IE, PI JP 2000508307 ZA 9703002 PRIORITY APPLN. INFO.:

JP 1997-535832 ZA 1997-3002 DE 1996-19614204 WO 1997-EP1698

OTHER SOURCE(S):

MARPAT 127:358876

CO2H

R1212233425R [I, R = OH, alkoxy, OPh, etc., R1 = H, (phenyl)alkyl, etc., Z1 = (oxolpiperazine-1,4-diyl, (oxolpiperidine-1,4-diyl, Z2 = CH2CH2, CCCH2, NHCO, CO2, etc., Z3 = (unlsubstituted (oxolpiperazine-1,4-diyl, -(oxolpiperidine-1,4-or,1-diyl, -(oxolpiperidine-1,4-or,1-diyl, -(oxolpiperidine-1,4-or,1-diyl), -(oxolpiperidine-1,4-or,1-diyl), -(oxolpiperidine-1,4-or,1-diyl), -(oxolpiperidine-1,4-or,1-diyl), -(oxolpiperidine-1,4-or,1-diyl), -(oxolpiperidine-1,4-or), -(oxolpiperidine-1,4-diyl), -(oxolpiperidine-1,4-diyl), -(oxolpiperidine-1,4-diyl), -(oxolpiperidine-1,4-diyl), -(oxolpiperidine), -(oxolpiperidine-1,4-diyl), -(oxolpiperidine-1,4-diyl), -(oxolpiperidine-1,4-diyl), -(oxolpiperidine-1,4-diyl), -(oxolpiperidine-1,4-diyl), -(oxolpiperidine), -(oxolpiperidine), -(oxolpiperidine), -(oxolpiperidine), -(oxolpiperidine-1,4-diyl), -(oxolpiperidinyl), -(oxolpipe

#### ●2 HC1

198626-25-4 CAPLUS
Acetic acid, [4-[2-methyl-4-[2-(4-piperidinyl)ethyl]-1piperazinyl]phenoxyl-, methyl ester, dihydrochloride (9CI) (CA INDEX NAME)

<12/04/2007>

Erich Leese

#### 10/513699

35947-12-7, 1-(4-Methoxyphenyl)-2-methylpiperazine
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of heterocyclylphenoxyalkanoates and analogs as cell
aggregation inhibitors)
35947-12-7 CAPLUS
Piperazine, 1-(4-methoxyphenyl)-2-methyl- (9CI) (CA INDEX NAME)

198627-59-7P 198627-60-0P 198627-62-2P
RL: RCT (Reactant): SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation of heterocyclylphenoxyalkanoates and analogs as cell
aggregation inhibitors)
198627-59-7 CAPLUS
1-Piperaxinecarboxylic acid, 4-(4-hydroxyphenyl)-1-methyl-,
1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

198627-60-0 CAPLUS
1-Piperazinecarboxylic acid, 4-[4-(2-methoxy-2-oxoethoxy)phenyl]-3-methyl1.1-dimethylethyl ester (9C1) (CA INDEX NAME)

198627-62-2 CAPLUS
Acetic acid, [4-(2-methyl-1-piperazinyl)phenoxy]-, methyl ester, mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

10/513699

● 2 HC1

198626-78-7 CAPLUS 1-Piperidinecarboxylic acid, 4-[2-[4-[4-(2-methoxy-2-oxocthoxy)phenyl]-3-methyl-1-piperazinyl]ethyl)-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

198627-21-3 CAPLUS
Acetic acid, [4-[2-methyl-4-[2-(4-piperidinyl)ethyl]-1piperazinyl|phenoxy|-, cyclohexyl ester, dihydrochloride (9CI) (CA INDRX
NAME)

●2 HC1

198627-41-7 CAPLUS
Acetic acid, [4-{2-methyl-4-[2-(4-piperidinyl)ethyl]-1-piperazinyl|phenoxy|- (9CI) (CA INDEX NAME)

<12/04/2007>

Brich Leese

10/513699

2

CRN 76-05-1 CMF C2 H F3 O2

L9 ANSWER 42 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
137:50667
TITLE:
17VENTOR(S):
PATENT ASSIGNEE(S):
500ck, Mark G., Patane, Michael A.
Merck and Co., Inc., USA, Bock, Mark G., Patane,
Michael A.
PCT Int. Appl., 59 pp.

Michael A.

Michael A.

POT Int. Appl., 59 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English
PAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION: DATE APPLICATION NO. DATE

1 19970522 WO 1996-UB18346 19961112 <-BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, HU,
KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX,
RU, SG, SI, BK, TJ, TM, TR, TT, UA, US, UZ, VN,
KZ, MD, RU, TJ, TM
SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR,
NI, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML,
TO

19970605 AL 1864-CANAL XIND

... 9718209 A1

M: AL, AM, AU, AZ, B

IL, IS, JP, KG, K,

NG, NZ, PL, RG, RI

AM, AZ, BY, KG, XZ

RN: KE, LS, MM, SD, SZ

IE, IT, LU, MC, NL

AU 9677344

PRIORITY APPLIN, INPO.:

OTHER SOUT-PATENT NO. KIND DATE

AU 1996-77344 US 1995-7964P GB 1996-5165 WO 1996-U818346

OTHER SOURCE(S):

<12/04/2007>

MARPAT 127:50667

· STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OPPLINE PRINT ·

The title compds. [1, W = (un)substituted Ph. pyridy], thienyl, etc., Rl., R2 = N. CN. CHRRAS, CO2R4, SO2R4 (wherein R4, R5 = N. CT. CHRRAS, CO2R4, SO2R4 (wherein R4, R5 = N. CT. CHRRAS, CO2R4, SO2R4 (wherein R6 = N. CT. R1 = R1kyl, C3-8 cyclonikyl), Rl = 11. III (wherein R6 = N. Cl., R7 = C1-8 alkyl, etc., T. U. X. Y. Z = H. halo, C1-8 alkyl, C3-8 cycloalkyl, etc., n = 2-6)] and their salts, selective alpha la adrenergic receptor antagonists and useful in the treatment of benign prostatic hyperplasia, were prepared Thus, reaction of 2-cyano-lyhenylpiperazine with 4-bromobucylsaccharin in the presence of EtN(iPr) z in DMF afforded IV.NCl which Ki of S 300 nM against alpha la adrenergic receptor binding. Compds. Is are selective in their ability to relax smooth muscle tissue enriched in the alpha la receptor subtype without at the same time inducing orthostatic hypotension. One such tissue is found surrounding the urethral lining. Therefore, one utility of the instant compds. is to provide acute relief to males suffering from benign prostatic hyperplasia, by permitting less hindered urine flow. Another utility of the instant compds. is provided by combination with a human 5-alpha reductase inhibitory compound, such that both acute and chronic relief from the effects of benign prostatic hyperplasia are achieved.

191156-62-41 P31156-63-59
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study); PREP (Preparation), USES (Uses) (preparation of piperazine derivs. as alpha la adrenergic receptor antagonists)

2-Piperazinecarbonitrie, 4-[4-(1,1-dioxido-3-oxo-1,2-benzisothiazo1-2(3H)-yllbuty]; Preparl, monohydrochloride (9CI) (CA INDEX NAME)

191195-62-4 CAPLUS 2-Piperazinecarbonitrile, 4-[4-(1,1-dioxido-3-oxo-1,2-benzisothiazol-2(3H)-yl)butyl}-1-phenyl-, monohydrochloride (9CI) (CA INDEX NAME)

● HC1

191156-63-5 CAPLUS

Renzeneacetanide, N-(3-(3-cyano-4-phenyl-1-piperazinyl)propyl)-4-methyla-(4-methylphenyl)-, monohydrochloride (9CI) (CA INDEX NAME)

<12/04/2007>

Erich Leese

10/513699

PATENT ASSIGNEE(S):

Ann Merck and Co., Inc., USA; Bock, Mark G.; Patane, Michael A.; Ponticello, Rose Ann PCT Int. Appl., 50 pp. CODEN: PIXXO2

APPLICATION NO.

SOURCE.

DOCUMENT TYPE:

Patent English LANGUAGE

FAMILY ACC. NUM. CO PATENT INFORMATION: COUNT:

PATENT NO. DATE KIND A1 19970522 WO 1996-US18321 19981112 <--A2, BA, BB, BG, BR, RY, CA, CN, CU, CZ, ER, GE, HU,
KG, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX,
RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, U9, UZ, VN,
KG, KZ, MD, RU, TJ, TM
SD, SZ, UG, AT, BR, CH, DB, DK, ES, FI, FR, GB, GR,
MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML,
TD, TG
A1 19970522 CA 1994-221577

MNO 9717967 A1 19970522 W
M: AL. AM. AU. AZ. BA. BB. BG. BR.
IL. IS. JP. KO. KR. KZ. LC. LK.
NO. NZ. PL. RO. RU. SG. S1. S4.
AM. AZ. BY. KG. KZ. MD. RU. TJ.
RM: KK. LS. MM. SD. SZ. UG. AT. BE.
IE. IT. LU. MC. NL. PT. SE. BF.
MR. NE. SN. TD. TG
CA 2235370 A1 19970522 C
CA 2235370 A1 19970522 C
AU 9677341 A1 19970522 C
AU 9677341 A1 19970522 C
AU 977343 A1 19970522 C
BP 855220 A1 19900316
BP 855200 A1 1998023 E
R: AT. BE. CH. DE. DK. ES. FR. GB.
JP 11507395 T 19990629 J
US 5922722 A 19990713 U
PRIORITY APPLN. INFO: EP 1996-940465 19961112 <-, GR, IT, LI, LU, NL, SE, PT, IE, PI
JP 1996-519091 19961112 <-US 1998-6477 19980422 <-US 1995-6765P P 19951115
GB 1996-4323 A 19960219
WO 1996-US18321 W 19961112

OTHER SOURCE(S):

MARPAT 127:65787

I [A = CR2, N; X = C, N, but when X = N, R1 is absent; R1 = H, halo, alkyl, haloalkyl, alkoxy, cyano, CONR4R5, cycloalkyl, R2 = H, cyano, CONR4R5, COZR4, 80ZR4, R4, R5 = H, alkyl, cycloalkyll were prepared as alpha la adrenergic receptor antagonists (no data). I may be used for treating benign prostatic hyperplasia (no data). E.g., reaction of (CLGCHCH2)2/R6(BC) and 2-CLCGHCH2CH2 in THF/DMF/NAK, followed by treatment of the piperidine product with HCl/HOAc gave 4-(2-chlorophenyl)-4-cyanopiperidine hydrochloride.

135016-22-59

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU

10/513699

● HC1

191156-64-6 CAPLUS 2-Piperazinecarbonitrile, 1-phenyl-, monohydrochloride (9CI) (CA INDEX

L9 ANSWER 43 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 1997:443199 CAPLUS DOCUMENT NUMBER: 127:65787 Preparation of nicesation

Preparation of piperazine and piperidine derivatives

INVENTOR(S):

as alpha la adrenergic receptor antagonists Bock, Mark G., Patane, Michael A., Ponticello, Rose

<12/04/2007>

Brich Leese

(Therapeutic use), BIOL (Biological study), PREP (Preparation), RACT (Reactant or reagent), USES (Uses) (preparation of piperazine and piperidine derivs, as alpha la adrenergic receptor antagonists) 135036-22-5 CAPLUS

2-Piperazinecarbonitrile, 1-phenyl-4-(phenylmethyl)- (9CI) (CA INDEX

CH2-Ph

191156-64-6F
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic usel); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of piperazine and piperidine derivs, as alpha la adrenergic receptor antagonists)
191156-64-6 CAPLUS
2-Piperazinecarbonitrile, 1-phenyl-, monohydrochloride (9CI) (CA INDEX NAME)

ANSWER 44 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN SSION NUMBER: 1997:119141 CAPLUS MENT NUMBER: 126:131469

ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

CAPLUS
126:131469
Preparation of 1-{N-(aralky)aminoalkyl)|aminoisoindole
s as dopamine receptor ligands.
He, Xiao-Shu, Decosta, Brinn, Wasley, Jan W, F.
Neurogen Corporation, USA, He, Xiao-Shu, Decosta,
Brinn, Masley, Jan W, F.
PCT Int. Appl., 13 pp.
CODEN: PIXXD2
Patent
2 INVENTOR(S): PATENT ASSIGNEE(S):

SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC, NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE

APPLICATION NO. DATE AU 1997-15820 US 1995-463037 US 1995-463430 US 1995-464336 WO 1996-US8836 WO 1997-US967 19970102 <-A2 19950605
A2 19950605
A 19950710
W 19960604
W 19970102

OTHER SOURCE(S):

MARPAT 126:131469

Title compds. (1; R1, R2, R3, R4, R7, Rs, R9 = H, halo, OH, alkyl, alkoxy, X, Y, Z = C, N; R7R8 = atoms to form a (substituted) benzo ring; R6, R10 = H, halo, OH, alkyl, alkoxy, electron pair; R11 = R6, (substituted) Ph; K5 = H, alkyl, O = (CH21); l = 1-4; O1 = (CH210mN12CR18R18CR18R17ZR181S1GCH2) n; m = 2-5; n = 0-4; R12, R13 = alkyl; R12R13 = (CH2)s; S = 1-6; R14-R17 = H, alkyll, were prepared Thus, phthalimidine was stirred with Me3DBF4 to give a residue which was refluxed with 1-(3-aminopropyl)-4-(2-pyrimidinyl)piperazima and EtlN in CHCl3 to give 1-(3-[1-[4-(2-pyrimidinyl)piperazima)lpropyllamino)lsoindole. The latter bound to D4 receptors with Xi = 0.070 mM.
186345-23-J9 186345-30-2P
R1: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified). SPN (synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Useus)
(preparation of 1-[N-(aralkylaminoslkyl)]aminosiondoles as dopamine

<12/04/2007>

. Erich Leese

10/513699

IE,	SI, LT, LV					
JP 11500123	T	19990106	JP 1996-524966		19960212	<
US 5912246	A	19990615	US 1997-894179		19970814	<
US 6013654	A	20000111	US 1998-222560		19981230	<
PRIORITY APPLN.	INFO.:		US 1995-388682	A2	19950215	
			WO 1996-US1114	W	19960212	
			*** **** *****		10070014	

OTHER SOURCE(S):

MARPAT 125:275875

The title compds. [I, R1, R2 = H, halogen, alkyl, cycloalkyl, CN, (un)substituted CONN2, etc., R3 = H, halogen, CN, OH, alkyl, CHO, etc., R4-R7 = H, alkyl, cycloalkyl, cycloalkyl, (un)substituted aryl, etc., R8-R10 = H, halogen, alkyl, cycloalkyl, (un)substituted aryl, etc., R8-R10 = H, halogen, alkyl, cycloalkyl, CN, (un)substituted CON12, (un)substituted NN2, etc., W = N, CH, X = direct bond, NR4, Y = Ph, 2-, 3-, 4-pyridyl, pyrimidinyl, pyrazinyl, etc., le.g., 6-chloro-2-[14-(4-methoxyphenyl)-1-piperazinyl)methyllimidazo(1,2-alpyridine; m.p. 11:112?], which are dopamine D4-receptor antagonists (e.g., I demonstrate a ki for displacement of 3H-spiperone from human dopamine D4 cardiovascular (no data) agents, are prepared 12:181-44-8
RL: RCT (Reactant); RACT (Reactant or reagent) (prepriation of imidazo(1,2-alpyridines dopamine D4-receptor antagonist cardiovascular and CNS agents) 182181-44-8 CAPLUS
Rerzamide, 4-(2-methyl-1-piperazinyl)- (9CI) (CA INDEX NAME)

L9 ANSWER 46 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
135:142292
125:142292
Preparation of benzyloxyhydrazone derivatives as agrochemical fungicides
INVENTOR(S):
Nibnida. Tatsuki; Tajima, Sokichi; Taubata, Kenji
Nibno Nohyaku Co Ltd. Japan
Jpn. Koksi Tokkyo Koho, 56 pp.

10/513699

receptor ligands)
186345-23-3 CAPLUS
18-18-01ndol-3-amine, N-(3-(3-methyl-4-phenyl-1-piperaxinyl)propyl]- (9CI)
(CA INDEX NAME)

186345-30-2 CAPLUS
1H-Taoindol-3-amine. N-[3-(3-methyl-4-phenyl-1-piperazinyl)propyl]-,
dihydrobromide (9C1) (CA INDEX NAME)

•2 HBr

L9 ANSMER 45 OF 134
ACCESSION NUMBER:
DOCUMENT NUMBER:
1171TLE:
INVENTOR(S):
PATERT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:

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Patent English

DOCUMENT TYPE: LANGUAGE: FAMILY ACC, NUM. COUNT: PATENT INFORMATION:

PA?	THE	NO.			KIN	D	DATE			APPL	I CAT	ION	NO.		D.	ATE	
						-									-		
WO	9625	414			A1		1996	0822		WO 1	996-1	US11:	14		1	9960	212 <
	W;	AL,	AM,	AT,	AU,	AZ,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CZ,	DR,	DK,	BE,
		ES,	FI,	GB,	GE,	HU,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LK,	LR,	LT,	LU.
		LV,	MD,	MG,	MK,	MN,	MW,	MX,	NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG.
		SI,	SK														
	RW:	KE,	Ls,	MW,	SD,	SZ,	UG,	AT,	BE,	CH,	DB,	DK,	Es,	PR,	GB,	GR,	IE,
		IT,	LU,	MC,	NL,	PT.	SE,	BF,	BJ,	CF,	CG,	CI,	CM,	GA,	GN,	ML,	MR,
		NE,	SN,	TD													
ΑU	9648	595			A		1996	0904		AU 1	996-	48599	i		1	9960:	212 <
ΕP	8096	42			A1		1997	1203		EP 1	996-	90450	7		1	9960:	212 <
	R:	AT,	BE.	CH,	DE.	DK,	ES,	PR.	GB,	GR.	IT.	GI.	LU.	NL.	SE.	MC.	PT.

<12/04/2007>

Erich Leese

10/513699

CODEN: JKXXAP Patent Japanese DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO DATE Α... JP 08127563 19960521 19941029 <--PRIORITY APPLN. OTHER SOURCE(S): G1 INFO.: 19941029 MARPAT 125:142292

$$\begin{array}{c} \text{C1m} & \text{CHR}^{1} \text{OCR}^{2} = \text{NN} = \text{CR}^{3} \text{R}^{4} \\ \text{C} - \text{COY} \\ \text{II} \\ \text{X} \end{array}$$

The title compds. [1, R1, R2 = H, C1-6 (halo)alkyl, R3, R4 = H, cyano, C1-6 (halo)alkyl, C3-6 cycloalkyl, etc., X = CHORS, NORS (wherein R5 = C1-6 alkyl), Y = C1-6 alkoxy, alkylthio, mono- or disubstituted amino, Z = halo, C1-6 (halo)alkyl, m = 0-41, effective agrochem. fungicides at low doses, are prepared Reaction of bromide II with AckNN:C(SMe)3 in the presence of powdered KOH in DMSO at room temperature gave 42% hydrazone ound III, which aloved 95-100% control of barley powdery mildew and Phytophthora infeatans at 200 ppm.

\*\*RLL AGR (Agricultural use), BAC (Biological activity or effector, except adverse), BSU (Biological study, unclassified), SPN (synthetic preparation), BIOL (Biological study), PRPR (Preparation), USES (Usea) (preparation) bIOL (Biological study), PRPR (Preparation); USES (Usea) (preparation of benzyloxyhydrazone derivs, as agrochem, fungicides) 179935-74-1 CAPLUS
Benzeneacetic acid, u-(methoxyimino)-2-[[1-[[1-(3-methyl-4-phenyl-1-piperaxinyl)]ethylidenelhydrazono]ethoxylmethyl]-, methyl ester (9CI) (CA INDEX NAME)

Erich Leese

L9 ANSWER 47 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION INUMNER:
1996:467020 CAPLUS
125:114630
Cortain 4-aminomethyl-2-substituted imidazole derivatives and 2-aminomethyl-4-substituted imidazole derivatives new classes of dopamine receptor subtype specific ligands
INVENTOR(S):
Thurkauf, Andrew, Horvath, Raymond F.; Yuan, Jun;
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:

DOCUMENT TYPE:

ACCENT: APPL, 94 pp.
COEN: PIXXD2
Patent

DOCUMENT TYPE

Patent English

PA	TENT															ATE		
wc	9616															9951	122	٠٠٠
	W:	AM,	AT,	ΑU,	BB,	BG.	BR,	BY,	ÇA,	CH,	CN,	cz,	DE,	DK,	EE,	ES,	FI.	
		GB,	GE,	HU,	ıs,	JP,	KE,	KG,	KP,	KR,	KZ,	LK,	LR,	LT,	LU,	LV,	MD	,
		MG,	MN,	MW,	MX,	NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SQ,	SI,	SK,	ŢJ	,
		TM,	TT															
	RW:	KE,	LS,	MW,	SD,	SZ,	UG,	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	ΙE	,
		IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	ML,	MR	,
		NE,	SN,	TD,														
US	5681	956			A		1997	1028		US 1	1995 -	4012	01		1	9950	309	<
US	5633	377																
US	5646	281			Α						1995-							
US	5656	762									1995-							
US	5712	392									1995-							
	9643										996-							
	9509																	
ZA	9509	911																
EF	7936										995-							
	R:	AT.	BE.	CH,							IE,							
	9707				Α		1998	0223		ZA I	1997-	7500			1	9951	122	<
JP	1050	2670								JP 1	1995-	5170	74		1	9951	122	<
	2941						1999											
	9509										995-							
	6069										997-							
	6358										2000-							
	2002		14				2002	1003		US 2	2002-	1006	91		2	0020	318	٠

<12/04/2007>

Erich Leese

US 1994-344154

179333-36-9 CAPLUS
Piperazine. 1-(4-methoxyphenyl)-2-methyl-4-[(5-methyl-2-phenyl-1H-imidazol-4-yl)methyl- (9CI) (CA INDEX NAME)

ACCESSION NUMBER DOCUMENT NUMBER: TITLE:

AUTHOR (S) :

ANSWER 48 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN

SSION RUMBER: 1996:168754 CAPLUS

125:104240

In (substituted-phenyl)piperszines: antagonists with high binding and functional selectivity for dopamine D4 receptors

BOY(S): Boyfield, Izzy, Coldwell, Martyn C., Hadley, Michael S., Healy, Mureen A. M., Johns, Amanda, Nash, David J.; Riley, Graham J.; Scott, Emma E.; Smith, Stephen A., et al.

CRATE SOURCE: SmithKline Beecham Pharm., Harlow, CM19 SAW, UK Bloorganic & Medicinal Chemistry Letters (1996), 6(11), 1227-1232

COOR: BMCLER; ISSN: 0960-894X

Elsevier

WENT TYPE: Journal

CORPORATE SOURCE:

PUBLISHER: DOCUMENT TYPE: LANGUAGE: GI

A series of N-(substituted-phenyl)piperazine derivs, was prepared as selective antagonists of the dopamine D4 receptor. Many analogs possessed a binding selectivity of over 100 fold for D4 over D2 receptors. In functional studies in the microphysiometer, compound I showed a selectivity over dopamine D2 receptors of greater than 1000 fold. 17925-15-2
RL: BAC (Biological activity or effector, except adverse), BSU (Biological study, unclassified); PRP (Properties); TRU (Therapeutic use), BIOL (Biological study); USES (Uses) (preparation of N-(substituted-phenyl)piperazines as D4 receptor antagonists in relation to schizophrenia)

Brich Leese

A2 19941123 A2 19950309 A2 19901228 A2 19931108 A2 19940927 A1 19950605 W 19951122 A1 19970521 US 1994-344552 US 1994-34552 US 1995-401201 US 1990-635256 US 1993-81317 US 1994-313435 US 1995-462833 WO 1995-US15262 US 1997-859861 UB 2000-497986 A1 20000204

OTHER SOURCE(S): MARPAT 125:114630

Disclosed are compds. (I), wherein R1 represents optionally substituted ary), heteroary1, arylaiky1, or cycloalky1 groups, X. 2, and Y are optionally substitueted nitrogen or carbon atoms; R3 and R4 are organic or inory. Substituents which may together form ring structures; in 1s zero, one or two; and R5 and R6 are organic or inorg, substituents, and the pharmaceutically acceptable addition salts thereof, which compde, are highly selective partial agonists or antagonists at brain dopamine receptor subtypes or prodrugs thereof and are useful in the diagnosis and treatment of affective disorders such as Schizophrenia and depression as well as certain movement disorders such as Parkinsonism. Specifically, 2-pheny1-4(5)-[14-(2-pyrimidiny1)piperasin-1-y1)methy1]midazole dihydrochloride was prepared and was shown to bind to the dopamine D4 receptor site (K1 = 1033, 8200, 2,7 for D2, D3. D4 binding sites, resp.). 179313-05-2P 179333-05-3P 179333-0

179333-06-3 CAPLUS A:7333-40-3 CAPAUS
Piperazine, 2-methyl-1-(4-methylphenyl)-4-[(2-phenyl-1H-imidazol-4-yl)methyl]- (9CI) (CA INDEX NAME)

<12/04/2007>

10/513699

179258-15-2 CAPLUS
Propanamide. N-14-[4-(4-chlorophenyl)-3-methyl-1-piperazinyl]butyl]-2,2-dimethyl- [907] (CA INDEX NAME)

L9 ANSWER 49 OP 134
ACCESSION NUMBER:
DOCUMENT NUMBER:
1996:225867 CAPLUS
1996:225867 CAPLUS
1171LE:
1

Patent German

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. DE 4425660
WO 9602532
M: AU, CA, CN,
RM: AT, BE, CH,
AU 9530763
ZA 9506012
PRIORITY APPLN. INFO.:

OTHER SOURCE(S):

Title compds. [1, A = H. Me, Rl = (substituted) Ph. naphthyl, pyridyl, pyrimidinyl, pyrazinyl, 3,4-methylenedioxyphenyll, were prepared Thus. 7-[luoro-1,4-dihydro-4-oxo-1-[4-(H-1,2,4-triazol-1-yhenthyl)phenyll-3-quinolinecarboxylic acid hydrochloride [preparation via 1-(4-aminobensyl)-1H-1,2-4-triazole given] was stirred wich 1-(0-fluorophenyl)piperazine and diisopropylamine in DMF at 120° to give 95.4% I (A = H; Rl = 0-fluorophenyl). I inhibited HIV in human lymphocytes with IC50 = 0.08-0.7 µM.
2946-76-I RL: RCT (Reactant): RACT (Reactant or reagent) (preparation of 7-piperazinyl-1,4-dihydro-4-oxo-1-(4-(H-1,2,4-triazol-1-yl-methyl)phenyl]quinoline-3-carboxylic acids as virucides)

2946-76-1 CAPLUS
Piperazine, 2-methyl-1-phenyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

ANSWER 50 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: DOCUMENT NUMBER:

TITLE:

1995;958518 CAPLUS
124:146212
8-Chioro-10.11-dihydro-10-(1piperazinylcarbonyl) dibenz[b,f]i1.4]oxazepine
derivatives and analogs as analgesics and
prostaglandin-E2 antagonists
Hansen, Donald W., Jr.; Peterson, Karen B.
G. D. Searle and Co., USA
U.S., 38 pp. Cont.-in-part of U.S. 5,354,747.
CODEN: USXXAM INVENTOR (S): PATENT ASSIGNEE (S): SOURCE:

DOCUMENT TYPE: Patent English LANGUAGE: COUNT:

PAMILY ACC. NUM. CC PATENT INFORMATION:

DA	TENT	NO			KINI	3	DATE			APP	LICA	TTON	NO.		D.	ATE		
															-			
US	5461	047			А		1995	1024		US	1994	-245	349		1	9940	518	<
US	5354	747			Α		1994	1011		US	1993	-790	21		1	9930	616	<
CA	2165	159			A1		1994	1222		CA	1994	-216	5159		1	9940	602	<
WO	9429	286			A1		1994	1222		WO	1994	- US6	029		1	9940	602	<
	W:	AT,	ΑU,	BB,	BG,	BR,	BY,	CA.	CH,	CN	, cz	, DE	, DK,	ES,	FI,	GB,	HU,	
		JP,	KP,	KR,	KZ,	LK,	LU,	LV,	MG,	MN	, MW	, NI	, NO,	NZ,	PL,	PT,	RO,	
		Rυ,	SD,	SE,	SI,	sĸ,	TT,	UA,	US,	UZ	, VN							
	RW;	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR	, IE	, IT	LU.	MC,	NL,	PT,	SE,	
		BF.	BJ,	CF,	CG,	CI,	CM,	GA,	GN,	ML	, MR	, NE	, SN,	TD,	TG			
AU	9471	387			A		1995	0103		ΑU	1994	-713	87		1	9940	602	<
EP	7039	08			A1		1996	0403		ВP	1994	-920	687		1	9940	602	<
	R:	AT.	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR	, IE	, тт	', LI,	LU,	NL,	PT,	SE	
JP	0950	0107			T		1997	0107		JР	1994	-501	874		1	9940	602	<
IORIT	Y APP	LN,	NPO	. :						US	1993	- 790	21		A2 1	9930	616	
										US	1994	- 245	349		A 1	9940	518	
										WO -	1994	-US6	029		₩ 1	9940	602	

<12/04/2007>

Erich Leese

10/513699

162082-37-3P, Ethyl 1-phenyl-4-(phenylmethyl)-2piperazinecarboxylate 162082-38-4P, Ethyl 1-phenyl-2piperazinecarboxylate .
EL: RCT (Reactant): SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (8-chloro-10.11-dihydro-10-(1-piperazinylcarbonyl)dibenz[b,f] [1,4]oxaze pine derivs. and analogs as analgesics and prostaglandin-E2 antagonists) 162082-37-3 CAPUS 2-Piperazinecarboxylic acid, 1-phenyl-4-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)

Erich Leese

162082-38-4 CAPLUS
2-Piperazinecarboxylic acid, 1-phenyl-, ethyl ester (9CI) (CA INDEX NAME)

L9 ANSWER 51 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1995:954796 CAPLUS

10/513699

OTHER SOURCE(S); CASREACT 124:146212; MARPAT 124:146212

The present invention provides substituted dibenzoxazepine and dibenzothiazepine compds. I or a pharmaceutically-acceptable salt thereof, wherein: W = (N): 7 o = [Cn(R)q[d]t. X is oxygen, sulfur, 80, or 503, Y is hydrogen, halogen or hydroxy, Z is hydrogen or halogen; A is alkylene or carbonyl, B is CH or nitrogen, D is carbon or nitrogen; B is alkylene or carbonyl, B is CH or nitrogen, D is carbon or nitrogen; B is alkylene, carbonyl, alkyleneamino or alkylenecarbonyl, G is hydrogen, alkyl. cycloslkyl, alkoxy, aminoslkyl, aminocycloalkyl, aryl, alkyleneamyl or aryl-substituted aryl; R is hydrogen or CO2R1; R1 is hydrogen or alkyl, m is an integer of from 0 to 4; n is an integer of from 0 to 4; n is an integer of from 0 to 1; vis an i

163839-09-6 CAPLUS
2-Piperszinecarboxylic acid, 4-[(8-chlorodibenz(b,t)[1,4]oxazepin-10(11||)yl)carbonyl]-1-phenyl-, ethyl ester (9CI) (CA\_INDEX\_NAME)

<12/04/2007>

Erich Leese

10/513699

DOCUMENT NUMBER; TITLE: INVENTOR(S):

123:310860
Tocolytic oxytocin receptor antagonists
Bock, Mark G., Evans, Ben E., Culberson, J.
Christopher, Gilbert, Kevin F., Rittle, Kenneth B.,
Williams, Peter D.
Merck and Co., Inc., USA
PCT Int. Appl., 114 pp.
CODEN: PIXKD2

PATENT ASSIGNEE(S); SOURCE;

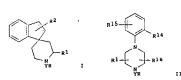
DOCUMENT TYPE: Patent

English

		FENT															ATE		
							-												
	WO	9525	443			A1		1995	0928	1	WO 1	995-1	US37:	8 8		1	9950	323	<
		₩:	AM,	AU,	BB,	BG,	BR.	BY.	CA.	CN,	cz.	EE,	FI,	GE,	HU,	IB,	JP,	KG,	
			KR,	KZ,	LK,	LR,	LT.	LV,	MD,	MG,	MN,	MX.	NO,	NZ,	PL,	RO.	RU,	BG,	
			81,	SK,	TJ,	TT,	UA,	US,	UZ										
		RW:	KE,	MW,	SD,	SZ,	UG,	AT,	BE,	CH,	DE,	DK,	ES,	PR,	GB,	OR,	IE,	IT,	
			LU,	MC,	NL,	PT,	SE,	BF,	ΒJ,	CF,	CG,	CI,	CM,	GA,	GN,	ML,	MR,	NE,	
			SN,	TD,	TO														
	US	5464	788			Α		1995	1107		US 1	994-	2172	70		1	9940	324	
	CA	2186	129			A1		1995	0928		CA 1	995-:	2186	129		1	9950	323	٠
	ΑU	9521	952			A		1995	1009		AU 1	995-	2195	2		1	9950	3 2 3	<
	ΑU	6867	92			B2		1998	0212										
	EP	7517	73			A1		1997	0108		EP 1	995-	9148	75		1	9950	323	<
		R:	AT,	BE.	CH,	DE.	DK,	ES,	FR,	GB,	GR,	IE,	IT.	LI.	LU,	ŇL,	PT,	SE	
	JP	0951	2521			T		1997	1216		JP 1	995-	52483	3 8		1	9950	323	•••
	US	5756	504			A		1998	0526		U9 1	996-	7184	15.		11	9960	923	<
PRI	ORITY	APP	LN.	INPO	. :						US 1	994 -	2172	70		A2 1	9940	324	

OTHER SOURCE(S):

MARPAT 123:330860



Spiroindenepiperidine derivs. I [R1 = H, C1-5 alkyl, CN, C02H, Ph, etc., R2 = H. PhCH2, C3-8 cycloalkyl, C1-5 alkyl, Y = C02, C(O)NR2, C(18R2), S02, C(O) (C012ln, (CH2)p, (CH2)p(C0), R = (tertahydro)naphthyl, (substituted) cyclohexyl, (substituted) Ph, heterocyclyl, bond in cyclopentae ring is single or double, n = 0-3; p = 1-3] and phenylpiperarine derivs. II (Y, R, R1 as above; R14, R15 = H, C1-5 alkyl, C1-5 alkox, halo, NO2, CN, R16 = H, :0) and their pharmaceutically acceptable salts and esters are useful as oxytocin and vasopressin receptor antagonists for treatment of preterm labor and dysmenorrhee and for stopping labor prior to cesarean delivery. Thus, 1-[2-methoxy-4-[1-[2-

(M-cyclopropylamino)ethylsulfonyl]-4-piperidyloxy]phenylacetyll-4-(2-methylphenyl)piperazine-2-carboxamide (III) was prepared in 11 steps from 4-hydroxypiperidine, Me 2.4-dihydroxybenzoate, 2-benzylaminethanol, o-toluidine, 2.3-dibromopropionamide, and cyclopropylamine. III competed with 1 nM oxytocin-3H for binding to rat uterine tissue with an 1650 of 20

170929-79-0P 170939-79-0P
RL: BAC (Biological activity or effector, except adverse), BSU (Biological study, unclassified), SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study), PREP (Preparation); USES (Usea) (tocolytic oxytocin receptor antagonists) 170929-79-0 CAPLUS Carbamic acid, [4-[2-[3-(2-hydroxyethyl]-4-(2-methylphenyl)-1-piperazinyl]-2-oxoethyl]phenyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

170930-08-2P 170930-09-3P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT RL: KCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)/ MACI (Reactant or reagent) Cocolytic oxytocin receptor antagonists) 17030-0-02-2 CAPLUS 2-Piperazineethanol, 1-(2-methylphenyl)-4-(phenylmethyl)- (9CI) (CA INDEX NAME)

170930-09-3 CAPLUS 2-Piperazineethanol, 1-(2-methylphenyl)- (9CI) (CA INDEX NAME)

<12/04/2007>

Erich Leese

10/513699

162082-38-4 CAPLUS 2-Piperazinecarboxylic acid, 1-phenyl-, ethyl ester (9CI) (CA INDEX NAME)

16339-09-6P
RL BTN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of dihera(b,f)[1,4]oxazepines analgesics)
16339-09-6 CAPUS
2-Piperazioneorrboxylic acid, 4-[(8-chlorodibenz(b,f)[1,4]oxazepin-10(11H)-yl)carbonyl]-1-phenyl-, ethyl ester (9CI) (CA INDEX NAME)

L9 ANSWER 53 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 1995:274966 CAPLUS
TITLE: Proparation of 3-(piperazinomethyl)indazoles as dopaminergic antagonists
INVENTOR(S): Baker, Raymond, Kulagowski, Janusz Jozef, Leeson, Paul David; Smith, Adrian Leonard

Brich Leese

10/513699

L9 ANSWER 52 OP 134 CAPLUS COPYRIGHT 2007 ACS ON 8TN ACCESSION NUMBER: 1995:682580 CAPLUS DOCUMENT NUMBER: 123:83397 123:83397

Analgesic dibenzoxazepines and dibenzothiazepines
Hansen, Donald Willis, Jr., Peterson, Karen Berenice
O.D. Searle and Co., USA
PCT Int. Appl., 189 pp.
CODEN: PIXXD2
Patent
English
3 TITLE: INVENTOR(S):

DOCUMENT TYPE: LANGUAGE: FAMILY ACC, NUM, COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

OTHER SOURCE(S): MARPAT 123:83397

Dibenz[b,f][1,4]oxazepines and dibenz[b,f][1,4]thizepines were disclosed for the treatment of prostaglandin-E2 mediated diseases. A claimed example compound is 8-chloro-10, 11-dihydro-10-[[i-(phenylmethyl)-1-piperazinyl[carbonyl]dibenz[b,f][1,4]oxazepine hydrochloride [T]. 162082-38-4P
RE: RCT (Reactant): 9PN (Synthetic preparation), PREP (Preparation), RACT (Reactant or reagent) (preparation of dibenz[b,f][1,4]oxazepines analgesics) 162082-37-3 CAPLUS / 2-Piperazinearboxylic acid, 1-phenyl-4-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)

<12/04/2007>

Brich Leese

Merck Sharp and Dohme Ltd., UK PCT Int. Appl.. 60 pp. CODEN: PIXXD2 Patent English

DOCUMENT TYPE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

XIND DATE APPLICATION NO. DATE

A1 19940929 MO 1994-GB504 19940314 <--BG, BR, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FT, GB, HU,
KZ, LK, LU, LV, MG, MN, MM, NL, NO, NZ, PL, PT, RO,
ST, SK, LA, LU, LV, WG
DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE,
CG, CI, CM, CM, GA, GM, LM, MR, RS, BN, TD, TO

A1 19940919 A1 1994-2156838 19940314 <-B2 19991011 AU 1994-62140 19940314 <-B1 19991013 EP 1994-909210 19940314 <-B1 19971203
B1 19971203
B2 DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE
T 19951215 A7 1994-909210 19940314 <-T 19971215 B1 1994-520766 19940314 <-T 19980714 U8 1995-52629 19981229 <-UR 19980714 U8 1995-52629 19981229 <-UR 19980714 U8 1995-52629 19981229 <-UR 19980714 U8 1995-5623 A 19990318 W 19940314 PATENT NO. PATENT NO. KIND D

WO 9421630

M: AT, AU, BB, BG, BR,
JP, KP, KR, KZ, LK,
RU, SD, 8E, SI, SK,
RW: AT, BE, CH, DE, DK,
BF, BJ, CP, CG, CI,
CA 215630

AU 9462140

AU 685090

EP 689539

A1 1

EP 689539

R: AT, BE, CH, DE, DK,
JP 08512244

T 1
AT 100779

T 1
BG 2110275

PRIORITY APPLA: INFO: OTHER SOURCE(S): MARPAT 122:81403

Title compds. [I, R = H. alkyl, RI = H. (cyclo)alkyl, alkoxy, (hetero)aryl, etc., R3 = (cyclo)alkyl, alkoxy, (hetero)aryl, etc., R2 = (cyclo)alkyl, alkoxy, (hetero)aryl, etc., R3-R5 = H. halo, cyano, hydrocarbyl, etc.] were prepared Thus, H1-indazole-3-carboxylic acid was amidated by 1-(4-chlorophenyl)piperasine and the product reduced to give I (R = R1 = R3-R5 = H, R2 = 4-CLCSH4). I had Ki of 1.5 Lu of

L9 ANSMER 54 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1995;205963 CAPLUS
DOCUMENT NUMBER: 123:9468
2-, 3-, 4-, 5-, 6-, 7-, 8-, 9- and/or 10-substituted dibenzoxazejne and dibenzthiazejne compounds as analgesics and prostaglandin E2 antagonists, pharmaceutical compositions and methods of use Hansen, Donald M., Jr., Peterson, Karen B. O. Searle and Co., USA
SOURCE: 0. Searle and Co., USA
U.S., 19 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

THIERT INTORPHIZON.			
PATENT NO.	KIND DATE	APPLICATION NO.	
US 5354747	A 19941011	US 1993-79021	19930616 <
US 5461047	A 19951024	US 1994-245349	19940518 <
CA 2165159			
WO 9429286			
	BG, BR, BY, CA, CH		
	KZ, LK, LU, LV, MG		
	SI, SK, TT, UA, US		,,, ko,
	DE. DK. ES. FR. GB.		40 M PE 00
	CG. CI. CM. GA. GN		
AU 9471387			
EP 703908	A1 19960403	EP 1994-920687	19940602 <
R: AT, BE, CH,	DE, DK, ES, FR, GB	. GR, IE, IT, L1, 1	U, NL, PT, SE
JP 09500107	T 19970107	JP 1994-501874	19940602 <
PRIORITY APPLN, INFO.:		US 1993-79021	A2 19930616
		US 1994-245349	A 19940518
		WO 1994-US6029	
OTHER SOURCE(S):	CASREACT 123:9468;		

- [CH(R)q] (CH2) n-

<12/04/2007>

Erich Leese

10/513699

162082-38-4 CAPLUS 2-Piperazinecarboxylic acid, 1-phenyl-, ethyl ester (9CI) (CA INDEX NAME)

1995:205982 CAPLUS
122:239729
Squaric acid derivatives of substituted
dibenzoxazepine compounds as anaigens and
prostagiandin E2 antagonists, pharmaceutical
compositions and methods of use
Chandrakumar, Nizal S.; Pitzele, Barnett S.
G.D. Searle and Co., USA
U.S., 18 pp.
CODEN: USXXAM
Patent

INVENTOR(S): PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT I	NO.		KIND	DATE	APPLICATION NO.	DATE
US 5354	746		Α	19941011	US 1993-69503	19930601 <
WO 94279	981		A1	19941208	WO 1994-US4973	19940511 <
W:	AT.	AU. BB.	BG. BR	. BY. CA.	CH. CN. CZ. DE. DK.	ES, FI, GB, HU,
	JP, I	CP, KR,	KZ, LK	LU, LV.	MG, MN, MW, NL, NO,	NZ, PL, PT, RO,
	RU. S	SD. SE.	SI, SK	TT, UA.	US, UZ, VN	
RW:	AT, I	E, CH,	DE, DK	ES. FR.	GB, GR, IE, IT, LU,	MC, NL, PT, SE,
	BF, B	J, CF,	CG, CI	, CM, GA,	GN, ML, MR, NE, SN,	TD, TG
AU 94671	331		A	19941220	AU 1994-67831 、	19940511 <
PRIORITY APP	LN. II	IPO . :			US 1993-69503	A 19930601
					WO 1994-US4973	W 19940511
OTHER SOURCE	(5):		MARPAT	122:23972	29	
GT						

<12/04/2007>

Erich Leese

The present invention provides substituted dibenzoxazepine and dibenzthiazepine compds. I which are useful as analgesic agents for the treatment of pain, and for prostaglandin-R2 mediated diseases, pharmaceutical compns, comprising a therapeutically-effective amount of I in combination with a pharmaceutically-acceptable carrier, a method for eliminating or ameliorating pain in an animal comprising administering a therapeutically-effective amount of I to the animal, and method for treating prostaglandin-22 mediated diseases in an animal comprising administering a therapeutically-effective amount of I to the animal, and sethod for treating prostaglandin-22 mediated diseases in an animal comprising administering a therapeutically-effective amount of I to the animal. Analgesic activity was measured using the writhing assay at standard dose of 10 mpk/g body weight: I produced analgesia in from 2/10 to 10/10 of the mice. Prostaglandin E2 antagonism assay (inhibition of contraction of guinea plg ileum): dose ratio of EC50 doses of from 0.8 to 32. Pharmaceutical compns. were given.
163839-09-6P

16383-09-6P
RI: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PRSP (Preparation)
(substituted dibenzoxazepine and dibenzthiazepine compds, as analgesics and prostaglandin E2 antagonists)
163839-09-6 CAPLUS
2-Piperasinecarboxylic acid, 4-((8-chlorodibenz[b,f][1,4)oxazepin-10(11H)-yl)carbonyl]-1-phenyl-, ethyl ester (9CI) (CA INDEX NAME)

162082-37-3P, Ethyl 1-Phenyl-4-(phenylmethyl)-2piperazinecarboxylate 162082-38-4P, Ethyl 1-phenyl-2piperazinecarboxylate 82-8-4P, Ethyl 1-phenyl-2piperazinecarboxylate 82-8-4P, Ethyl 1-phenyl-2piperazinecarboxylate 89-4P, Ethyl 1-phenyl-2RCT (Reaccant or reagent) (synthetic preparation); PREP (Preparation); RACT
(Reaccant or reagent)
(seubstituted dibenzoxazepine and dibenzthiazepine compds. as analgesics
and prostaglandin E2 antagonists)
162082-37-3 CAPUS
2-Piperazinecarboxylic acid, 1-phenyl-4-(phenylmethyl)-, ethyl ester (9CI)
(CA INDEX NAME)

<12/04/2007>

Erich Leese

10/513699

The present invention provides substituted dibensoxarepine compds. of formula I (X = 0, 8, 80, 802) Rl. RZ = N, halogen; Rl = NRARS, alkoy, II, III, R4 = N, alkyl, R5 = alkyl, alkylene-NRAR4, alkylaryl; R6 = Ne aryl; R7 = N. CO2R4; m = 0.5) which are useful as analgesic agents for the treatment of pain, and as prostaglandin-E2 antagonists for the treatment of pain, and as prostaglandin-E2 antagonists for the treatment of prostaglandin-E2 mediated diseases, pharmacoutical compns. comprising a therapeutically-effective amount of a compound I in combination with a pharmacoutically acceptable carrier, a method for eliminating or ameliorating pain in an animal, comprising administering a therapeutically-effective amount of a compound I formula I to the animal. Analgesic activity assessed by writhing ansay at 30 mg/kg dose; in from 4/10 to 6/10 of mice, the number of writhes elicited by PBO was equal to, or less than, one-half the median number of writhes recorded for the saline-treated control group. POE2 antagonism assay: EC50 dose ratios of 1.9 ± 0.9 to 183 ± 74 for intibition of contraction of guinea pig ileum. Pharmaceutical formulations were given.

162082-37-3P, Ethyl 1-phenyl-4-(phenylmethyl)-2-piperazinecarboxylate 162082-38-4P, Ethyl 1-phenyl-2-piperazinecarboxylate 162082-38-4P, Ethyl 1-phenyl-2-piperazinecarboxylate (Synthetic preparation); PREP (Preparation), RACT (Rectant); SPO (Synthetic preparation); PREP (Preparation), RACT (Escutant); SPO (Synthetic preparation); PREP (Preparation); RACT (Escutant); SPO (Synthetic preparation); PREP (Preparation)

<12/04/2007> Erich Leese 162082-38-4 CAPLUS
2-Piperazinecarboxylic acid, 1-phenyl-, ethyl ester (9CI) (CA INDEX NAME)

L9 ANSMER 56 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1994:457460 CAPLUS
DOCUMENT NUMBER: 121:57460
121:57460
2-Amino-2-oxazolines VII. Influence of structural
parameters on the antidepressant activity of
5:(1-artyl-4-piperazino)methyl-2-amino-2-oxazolines
AUTHOR(S): 800c. Jean Jacques; Forfar, Isabelle; Jarry,
Christian; Laguerre, Michel; Carpy, Alain
CORPORATE SOURCE: Lab. Chim. Phys., Univ. Bordeaux 11, Bordeaux, 33076,
Fr.

Archiv der Pharmazie (Weinheim, Germany) (1994 ), 327(3), 187-92 SOURCE

CODEN: ARPMAS; ISSN: 0365-6233 Journal

DOCUMENT TYPE:

LANGUAGE: OTHER SOURCE(S): English CASREACT 121:57460

[(Arylpiperazino)methyl]aminooxazolines I (R = substituted Ph, Ri = H, Me) were prepared and screened for antidepressant activity. Their lipophilic behavior is discussed in relation to the nature and the position of substituents on the aromatic ring. The influence of steric effects on the pharmacol. activity has been investigated using exptl. methods (x-ray diffraction, NMR) and theor. calcus. (semi-empirical quantum mechanics). Ortho-aubstitution on the Ph ring or C(a)-substitution on the piperazine ring by a Me group results in the same effects, i.e., an increase of the angle between the two rings up to 64° (x-ray and calcul.) and a loss of antidepressant activity. 35947-11-6
RE: RCT (Reactant); RACT (Reactant or reagent)
[alkylation by, of epichlorohydrin)
35947-11-6 CAPLUS
Piperazine, 2-methyl-1-(4-methylphenyl)- (CA INDEX NAME) AΒ

<12/04/2007>

Erich Leese

10/513699

L9 ANSWER 57 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1994.9618 CAPLUS
TITLE: 120.9618 CAPLUS
TITLE: 120.9618 CAPLUS
TITLE: 120.9618 CAPLUS
TITLE: 120.9618 CAPLUS
TAYENTOR(S): 120.9618 CAPLUS
TREMTOR(S): 120.9618 CAPLUS
TREMTOR(S): 130.9618 CAPLUS
TREMTOR(S): 130.9618 CAPLUS
TREMTOR COPEN: 120.9618 CAPLUS
TREMTOR COPEN: PIXXD2
TOTAL APPL., 20 pp.
CODEN: PIXXD2
TATLEL APPL., 20 pp.
TOTAL APPL., 20 pp.
TOTAL

PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PAIENT NO. KIND DATE APPLICATION NO.

MO 9314091 A1 19930722 NO 1993-EPB0
RM: AT, BE, CH, DE, DK, ES, FR, GB, CR, IE, IT, LU, MC,
BF, BJ, CF, CG, CI, CM, GA, ON, ML, MR, SN, TD, TO
AU 9333504 A 19930803 AU 1993-33504
AU 671973 B1 199360919
EF 623131 A1 19941109 EP 1993-902204
BF 623131 B1 19960403
R: AT, BE, CH, DE, DK, ES, FR, GR DATE 19930114 <--19930114 <--19930114 <--31 Bl 19960403
AT, BE, CH, DE, DX, ES, FR, OB, GR, IE, IT, LI, LU,
3000 T 19950330 JP 1993-512150
912 B2 19990210
1 A2 19951030 HU 1994-2119
78 B 20001028
07 T 19960415 AT 1993-902204
1 A2 19960528 HU 1995-2179
68 B 20000528
270 T3 19960801 ES 1993-902204
752 A 19970128 BR 1993-5752 EP 623131 R: AT, JP 07503000 JP 2856912 HU 70761 HU 218678 AT 136307 HU 72591 HU 217968 ES 2088270 MC, NL, PT, SE 19930114 <--19930114 <--19930114 <--ES 1993-902204 BR 1993-5752 PL 1993-304665 CZ 1994-1732 RO 1994-1203 RU 1994-36769 SK 1994-846 CA 1993-2122102 ZA 1993-292 FI 1994-3386 19930114 <-19930114 <-19930114 <-19930114 <-19930114 <-19930114 <-19930114 <-19930114 <--ES 2088270 BR 9305752 PL 170913 CZ 282910 RO 113465 RU 2126801 SK 280561 CA 2126202 ZA 9300792 19960801 19970128 19970228 19971112 19980730 19990227 20000313 2001012 20010123 19930819 19940715 20021213 19940916 19980223 19960806 ZA 9300292 PI 9403386 FI 110186 NO 9402668 NO 302365 US 5543563 NO 1994-2668 19940715 <--19950601 <--US 1995-457490 19980414 19951228 20010428 US 5739334 US 1995-457114 HU 1995-2177

Erich Leese

10/513699

155850-87-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and cleavage of, with monosodium cyanamide)
155850-87-6 CAPLUS
Piperazine, 2-methyl-1-(4-methylphenyl)-4-(oxiranylmethyl)- (9CI) (CA

155850-82-1P 155850-86-5P
RL: SPN (Synthetic preparation), PREP (Preparation)
(preparation, antidepressant activity, and NMR of)
155850-82-1 CAPLUS
2-Oxazolamine, 4,5-dihydro-5-[{3-methyl-4-(4-methylphenyl)-1piperazinylimethyl]-, (R\*,R\*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

ISBS0-86-5 CAPLUS
2-Oxazolamine, 4.5-dihydro-5-[[3-methyl-4-(4-methylphenyl)-1-piperazinyllmethyl]-, (R\*,8\*)- (9CI) (CA INDEX NAME)

Relative stereochemistry.

<12/04/2007>

Erich Leese

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HU 71512	A2	19951228	HU	1995-2178		19950719	٠
HU 217981	В	20000528					
HU 71513	A2	19951228	HU	1995-2180		19950719	<
HU 217982	В	20000528					
US 5726178	A	19980310	υs	1996-758556		19961129	<
NO 9704462	A	19940916	NO	1997-4462		19970926	<
PI 2002001	652 A	20020916	PΙ	2002-1652		20020916	٠٠٠
PI 113266	B1	20040331					
PRIORITY APPLN.	INFO.;		IТ	1992-MI84	A	19920117	
			нυ	1994-2119	A	19930114	
			WO	1993-EP80	A	19930114	
			UЗ	1994-256352	A3	19940718	

OTHER SOURCE(S):

MARPAT 120:8618

The title compds. I (only one of R, R1-R3 is C1-3 alkyl and the others are H). Useful in the treatment of depression, and which have reduced affinity for adrenergic receptors thus not producing the side effects of trazodone (e.g., hypotension and priaglam), are prepared by reacting 1.2.4-triazolo((a.3-a)pyridon-3-(2H)-one or its salts with alkali metal and with pipersaine derivative II (R = leaving group). Thus, the Na salt of 1.2.4-triazolo((a.3-a)pyridon-3-(2H)-one was condensed with 1.2.4-triazolo((a.3-a)pyridon-3-(2H)-one was condensed with 1.3-(a-triazolo(a.3-a)pyridon-3-(2H)-one was condensed with 1.4-(a-thoropheny))-4-(a)-chloro-2-methylpropyl)piperazine, producing I (R = Ma, R1-R3 = H) hydrochloride salt, m.p. 136-138\*, which demonstrated 27% inhibition of adrenergic G1-receptors at 10-7 M and 88% inhibition at 10-5 M, vs. 49% and 98%, resp., for trazodone. 15148-0-09 15448-0-2-1P 15448-0-2-1P 15448-0-2-1P 15448-0-2-1P 15448-0-2-1P 15448-0-3-1P 15448-0-3-1P

<12/04/2007>

Erich Leese

151448-02-1 CAPLUS 1,2,4-Triazolo(4,3-a)pyridin-3(2H)-one, 2-[3-[4-(3-chlorophenyl)-3-methyl-piperazinyl]propyll-, monohydrochloride (9CI) (CA INDEX NAME)

## ● HC1

L9 ANSWER 58 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER:
1993:517276 CAPLUS
1090:17276 CAPLUS
119:117276
NOVEl 4-arylpiperazines and 4-arylpiperidines
INVENTOR(S):
PATENT ASSIONEE(S):
CODEN: PIXXD2

CODEN: PIXXD2

DOCUMENT TYPE: English 2

PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PA7	TENT NO.	KIND	DATE	APPLICATION NO.	DATE
		••••			
WO	9304682	A1	19930318	WO 1992-US7754	19920911 <
	W: AU, BB,	BG, BR, CA.	, FI, HU,	JP, KP, KR, LK, MG, I	MW, NO, RO, RU, SD
	RW: AT, BE,	CH, DE, DK.	, ES, FR,	GB, GR, IE, IT, LU, I	MC, NL, SE, BF,
	BJ, CF,	CG, C1, CM,	GA, GN.	ML, MR, SN, TD, TG	
ZA	9109629	A	19931206	ZA 1991-9629	19911205 <
Hυ	68963	A2	19950828	HU 1993-1362	19911220 <
Hυ	217068	В	19991129		
UA	9226599	A	19930405	AU 1992-26599	19920911 <
AU	657799	P2	19950323		
EP	563345	A1	19931006	EP 1992-920313	19920911 <
EP	563345	В1	20020703		
	R: AT, BE,	CH, DE, DK	, ES, FR,	GB, GR, IE, IT, LI,	LU, MC, NL, SE
HU	64535	A2	19940128	HU 1993-1361	19920911 <
JP	06502870	T	19940331	JP 1993-505525	19920911 <
JP	2941945		19990830		
RU	2139867	Cl	19991020	RU 1993-41055	19920911 <
SG	70980	Al	20000321	SG 1996-5506	19920911 <
AT	219938	T	20020715	AT 1992-920313	19920911 <

<12/04/2007>

Erich Leese

## ● HC1

2946-76-1 148888-23-7
RL: RCT (Reactant), RACT (Reactant or reagent)
(preparation from: of antipsychotic arylpiperidines and arylpiperazines)
2946-76-1 CAPLUS
Piperazine, 2-methyl-1-phenyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

148888-23-7 CAPLUS Piperazine, 1-(2-fluorophenyl)-2-methyl- (9CI) (CA INDEX NAME)

L9 ANSMER 59 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1993:182780 CAPLUS
DOCUMENT NUMBER: 11:182780

AUTHOR (S): 2000 Fr. Thomas J., Bosc, J. J., Devaux, G., Jarry, C.
CORPORATE SOURCE: 300 Fr. Thomas J., Bosc, J. J., Devaux, G., Jarry, C.
Dep. Pharmacol. Clin., CHR Pellegrin, Fr. Journal of Liquid Chromatography (1993), 16(3), 767-76
CODEN: JUCHDS, ISSN: 0148-3919
DOCUMENT TYPE: 300 FR.

Erich Leese

DOCUMENT TYPE: LANGUAGE: GI

ES 2179822 NO 9301695 NO 9301694

10/513699

20030201 19930527 19930630 19920911 19930510 <--NO 1993-1694 19930510 <--NO 303780 PI 111639 US 5569659 PRIORITY APPLN, INFO.: 19980831 PI 1993-2104 US 1995-442600 US 1991-757881 US 1992-944006 WO 1992-US7754 WO 1992-US9082 US 1994-365978 19930510 19950517 <---A 19910911 B1 19920911 A 19920911 W 19921220 B) 19941228 20030829 19961029

OTHER SOURCE(S); MARPAT 119:117276

Title compds.4-RX(CH2)ncRiR2XIMNR)R4 (X = (un)substituted piperaxino, piperidino; X1 = (un)substituted Ph; R = aryl; CRIR2 = CH2, CO, 1,1-alkanediyl, CHOH; W = CO, CS, SOZ; NR3R\* = mmino; n = 0-41 (113 compds.) were prepared as antipsychotic agenta. Thus, 3-clclu2c6H4COCl was treated with piperatine and N = (2-isopropoxyphenyl)piperaxine to give the piperaxine I which had an EDSo against apomorphine-induced emesis in dogs of 0.03smg/kg orally in dogs in before treatment with apomorphine.. 148826-90-80 P148855-92-P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and antipsychotic activity of)
148826-90-8 CAPLUS
Piperidine, 1-(3-[(3-methyl-4-phenyl-1-piperazinyl)methyl)benzoyl]- (9CI)
(CA INDEX NAME)

148853-59-2 CAPLUS
Piperidine, 1-[3-((3-methyl-4-phenyl-1-piperszinyl)methyl]benzoyl}-,
monohydrochloride (9C1) (CA INDEX NAME)

<12/04/2007>

Erich Leese

A comparative study of lipophilicity in a series of 5-(1-aryl-4-piperazino)methyl-2-amino-1-oxazolines, i.e., I (R = H, Me, Rl = H, Cl, F, Me, MeO, BtO, OH, CF3, Me2CH, NMe2, etc.) and II (X = CH, N), with antidepressant activity has been carried out using a RP-HPLC technique. This chromatog, method allowed the determination of log k'w values (k' = chromatog, column capacity factor) through extrapolation to 1009 water from capacity factors data. The partition coeffs, (log Po/w) and ionization consta. (RsA) were measured by classical methods. A good correlation between log Po/w and log k'w was found, confirming the feasibility of using the latter as a lipophilicity descriptor. In this homogeneous chemical series the nature and the position of the substituents on the aromatic ring did not induce important variations on the pKa values, whereas they accounted for a great part in lipophilicity data.

144881-48-1 (APPOPATIES)
(lipophilicity of. HPLC study of, structure in relation to)
144881-48-1 (APPUS)
2-oxazolamine, 4,5-dihydro-5-([4-(4-methoxyphenyl)-3-methyl-1-piperazinyl)methyl)- (SCI) (CA INDEX NAME)

L9 ANSWER 60 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 1993;38880 CAPLUS DOCUMENT NUMBER: 118:38880

10/513699

AUTHOR (S) :

Synthesis and antidepressant activity of 5-(1-aryl-4-piperazino)methyl-2-amino-2-oxazolines Bosc, J. J., Jarry, C., Carpy, A., Panconi, E., Descas, P., Lab. Chim. Phys., Univ. Bordeaux II, Bordeaux, 33076, Pr.

CORPORATE SOURCE:

European Journal of Medicinal Chemistry (1992 Do.upean Journal of Medicinal of 1, 27(5), 437-42 CODEN: EJMCA5; ISSN: 0223-5234 Journal SOURCE:

DOCUMENT TYPE: LANGUAGE: GI

The synthesis of 20 5-(1-aryl-4-piperazino)methyl-2-amino-2-oxazolines, e.g., I (R \* H, 2-, 3-, 4-Cl, 3,4-Cl2, 3-, 4-Me, 4-MeO, 4-MeZN, R1 = H, Me), from arylpiperazines II and epichlorhydrin is described. I(R = H, 4-OMe, 4-OM, 4-OX, R1 = H) had EDSO <200g/kg orally in the reserpine-induced hypothernia test in mice. Structure-activity relationships were studied and correlated with the nature of the aromatic substituent. Preliminary lipophilic and electronic properties of I (R, R1 = H) are reported.
15947-12-7
RL: RCT (Reactant), RACT (Reactant or resgent) (addition reaction of, with epichlohydrin in synthesis of arylpiperazinylmethylaminooxazoline)
15947-12-7 CAPLUS
Piperazine, 1-(4-methoxyphenyl)-2-methyl- (9CI) (CA INDEX NAME)

144881-48-1P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
BIOL (Biological study); PREP (Preparation); USES (Uses)

[preparation and antidepressant activity of)

144881-48-1 CAPLUS 2-Oxazolamine, 4,5-dihydro-5-{[4-(4-methoxyphenyl)-3-methyl-1-

<12/04/2007>

Erich Leese

canine cardiac Purkinje fibers (class III activity). All but one of the compds. demonstrated β-receptor affinity in a competitive binding assay and three had βi-receptor selectivity. Compared to socalol, a reference class II/III agent, I demonstrate β1-selectivity and was 1 order of magnitude more potent in the in vitro class III and the β1-receptor screens. I was evaluated further and found to be effective in preventing programmed elec. Stimulation-induced arrhythmias in halothane anesthetized dogs (class III activity) and 155016-09-8P 135036-10-1P
RL: BAC (Biological activity or effector, except adverse), BSU (Biological study, unclassified), SPN (Synthetic preparation), THU (Therapeutic use), BIOL (Biological study), PREP (Preparation), USES (Uses) (preparation and antiarrhythmia activity of) 135016-09-8 CAPLUS Benzamide, 4-(imethylsulfonyl)aminol-N-[(1-phenyl-2-piperazinyl)methyl]-(9CI) (CA INDEX NAME)

135036-10-1 CAPLUS
Mcthanesulfonamide, N-[4-[[(1-phenyl-2-piperazinyl)methyl]aminolphenyl](9C1) (CA INDEX NAME)

135036-22-5P 135063-15-9P RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of) 135036-22-5 CAFLUS

-Piperazinecarbonitrile, 1-phenyl-4-{phenylmethyl}- (9CI) (CA INDEX

piperazinyl]methyl]- (9CI) (CA INDEX NAME)

H2N

ANSWER 61 OF 134

ACCESSION NUMBER: DOCUMENT NUMBER: TITLE:

CAPLUS COPYRIGHT 2007 ACS on STN
1922:106215 CAPLUS
116:106215
Synthesis, cardiac electrophysiology, and
(P-blocking activity of novel arylpiperazines with
potential as class II/III antiarrhythmic agents
Phillips, Gary B., Morgan, Thomas K., Jr., Lumma,
William C., Jr., Gomes, Robert P., Lind, Joan M., Lis,
Randall; Argentieri, Thomas; Sullivan, Mark E.
Dep. Med. Chem., Berlex Lab., Inc., Cedar Knolls, NJ,
07927, USA
Journal of Medicinal Chemistry (1992),
15(4), 743-50
CODEN: JMCMAR, ISSN: 0022-2623
JOURNAL AUTHOR (8):

CORPORATE SOURCE:

SOURCE:

DOCUMENT TYPE: Journal

LANGUAGE: OTHER SOURCE(S): English CASREACT 116:106235

Cyclocondensation reaction of N-aryl-N'-(phenylmethyl)-1,2-ethanediamine with 2,3-dibromopropionamide followed by derivatization gave a series of novel arylpiperazines, e.g., I'. Thus, the key step in the preparation of new compds, involves a regioselective heterocyclic ring formation. These were prepared in an attempt to incorporate both class II (β-receptor blocking) and class III antiarrythmic properties in a single mol. All but four compds, significantly prolonged action potential duration in

<12/04/2007>

Erich Leese

10/513699

ÇH2-Ph

CAPLUS 135063-15-9 2-Piperazinecarboxamide, N-(4-nitrophenyl)-1-phenyl-4-(phenylmethyl)-(9CI) (CA INDEX NAME)

L9 ANSWER 62 OF 134 ACCESSION NUMBER: DOCUMENT NUMBER: TITLE: CAPLUS COPYRIGHT 2007 ACS on STN
1991:471649 CAPLUS
115:71649
Preparation of N-arylpiperazinylmethylamides as

Preparation of N-arylpiperazinylmethylamiden an antiarrhythmics.
Lumma, Milliam Carl, Jr., Morgan, Thomas Kenneth, Jr.,
Phillips, Gary Bruce
Schering A.-G., Gereany
PCT Int. Appl., 77 pp.
CODEN: PIXXD2
Patent
English INVENTOR (S) :

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE:

PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.

WO 9102250 A1 19910404 MO 1990-EP10J.

W: CA, JP
RW: AT, BE, CH, DE, DK, ES, FR, GB, IT, LU, NL, SE
US 5051422 A 19910924 US 1989-408020
CA 2067156 A1 19910016 CA 1990-2067136
EP 491709 A1 19920701 EP 1990-911657
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, S
JP 05500600 T 19930212 JP 1990-510812
US 5223623 A 19930629 US 1991-757741
PRIORITY APPLN. INPO: US 1993-608020
MO 1990-EP1059
OTHER SOURCE(S): CASREACT 115:71649, MARPAT 115:71649 PATENT NO. KIND DATE APPLICATION NO. DATE 19900702 <--19890915 <--19900702 <--19900702 <--19900702 <--19910911 <--

<12/04/2007>

Erich Leese

<12/04/2007

Title compds. (I; R = H, alkyl. PhcH2; R1, R2 = alkyl. alkoxy, halo; Z = NR3CO, NR3CH2, OCH2, NR3, NR3SO2; Q = alkylsulfonylimino, Q1; R3 = H, alkyl. allyl. alkoxyalkyl; R4 = H, Me), were prepared as cardiovascular agents, primarily antiarrhythmics (no data). Thus, 4 = (methylsulfonyl)amino)-N-([4-phenyl-1-(phenylmethyl)piperazin-2-yl]methyl]benzamide hydrochloride was hydrogenolzed in MeOH over Pd(OH)2 to give title compound II.
135016-09-8P 135036-10-1P

135016-09-8P 135036-10-1P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BtOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as antiarrhythmic) 150036-09-8 CAPLUS Benzamide, 4-1 (methylsulfonyl) aminol-N-[(1-phenyl-2-piperazinyl)methyl]-(SCI) (CA INDEX INDEX INDEX)

Methanesultonamide, N-[4-{((1-phenyl-2-piperazinyl)methyllamino]phenyl]-(9CI) (CA INDEX NAME)

<12/04/2007>

Brich Leese

135036-33-8 CAPLUS 2-Piperazinecarboxylic acid, 1-phenyl-4-(phenylmethyl)- (9CI) (CA INDEX NAME)

135036-42-9 CAPLUS 2-Piperazinecarboxamide, N-[4-[(methylsulfonyl)amino]phenyl]-1-phenyl-4-(phenylmethyl)- (9C1) (CA INDEX NAME)

Erich Leese

135036-43-0 CAPLUS
Methanesulfonamide, N-[4-{[[1-phenyl-4-(phenylmethyl)-2-piperazinyl]methyl]amino}phenyl]- (9CI) (CA INDEX NAME)

IT

135036-23-6 CAPLUS
2-Piperazinemethanamine, 1-phenyl-4-(phenylmethyl)- (9CI) (CA INDEX NAME)

135936-24-7 CAPLUS
Benzamide, 4-(methylsulfonyl)amino]-N-[[1-phenyl-4-(phenylmethyl)-2piperaxinyl|methyl)- (9CI) (CA INDEX NAME)

135063-15-9 CAPLUS
2-Piperazinecarboxamide, N-(4-nitrophenyl)-1-phenyl-4-(phenylmethyl)-(9CI) (CA INDEX NAME)

135036-24-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, in preparation of antiarrhythmic)
135036-24-7
CAPLUS
Benzamide, 4-((methylsulfonyl)amino]-N-[[1-phenyl-4-(phenylmethyl)-2-piperazinyl]methyl]- (9CI) (CA INDEX NAME)

L9 ANSMER 63 OF 134

ACCESSION NUMBER:
DOCUMENT NUMBER:
1589:231402 CAPLUS
110:231402
Synthesia, in vitro acetylcholine-storage-blocking activities, and biological properties of derivatives and analogs of trans-2-(4-phenylpiperidino) cyclohexanol (vesamicol)
AUTHOR(S):

AUTHOR(S):

AUTHOR SOURCE:
CORPORATE SOURCE:
Dep. Chem. Univ. California, Santa Barbara, CA, 93106, USA
20urnal of Medicinal Chemistry (1989), 12(6), 1217-30
CODEN: JMCMAR, IBSN: 0022-2623
JOURNAL SOURCE:
DOCUMENT TYPE:

LANGUAGE: OTHER SOURCE(S):

Journal English CASREACT 110:231402

<12/04/2007>

Erich Leese

<12/04/2007>

Eighty-four analogs, e.g., I [R = (un)substituted Ph, cyclohexyl, PhCH2, Ph(CH2)3] and derivs. of the acetylcholine storage-blocking drug trans-2-4(4-phenylpiperidino)cyclohexanol (vesamicol) were synthesized, and their potencies were evaluated with the acetylcholine active-transport assay utilizing purified synaptic vesicles from Torpedo elec. organ. The parent drug exhibits enantioselectivity, with (-)-vesamicol being 25-fold more potent than (-)-vesamicol. The mol. structure and absolute configuration of (-)-vesamicol were determined by x-ray crystallog. The absolute iguration of (-)-vesamicol is (IR,2R). Structure-activity evidence indicates that (-)-vesamicol does not act as an acetylcholine analog. Alterations to all three rings can have large effects on potency. Unexpectedly, analogs locking the alt. and ammonium groups trans-diequatorial or trans-disavier both exhibit good potency. A potent benovesamicor for trans-disavier both exhibit good potency. A potent benovesamicor for trans-disavier in the properties of the structure of the properties of the structure of the structure of the properties of the structure of the st

L9 ANSWER 64 OP 134 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 1989:189237 CAPLUS DOCUMENT NUMBER: 110:189237 1989;189237 APLUS
110:189237
Synthesis and antimicrobial activity of some pyrrole derivatives. III. 2-(4-Arylpiperazino)-3-ethoxycarbonyl-5-arylpyrrole derivatives
Cocco, M. T., Congiu, C., Maccioni, A., Schivo, M. L., De Logu, A., Palmieri, G.
Ist. Chim. Farm. Tossicol. Appl., Univ. Cagliari, Cagliari, Italy
Farmaco, Edizione Scientifica (1988),
43(12), 951-60
CODEN: FRPSAX, ISSN: 0430-0920
Journal

AUTHOR (8):

CORPORATE SOURCE:

SOURCE:

DOCUMENT TYPE:

LANGUAGE:

10/513699

OTHER SOURCE(S):

CASREACT 110:173198

The pyrazinobensodiazepine derivs I (R = 9-, 10-, 11-F, 11-Me, 11-Meo) and (intinothano)bensodiazecine derivs II (R = 7-, 8-, 9-F) were prepared Thus, the anide III was cyclized by POCII to give the benzodiazepine IV, which was cyclized with MeN12 to give I (R = 10-F). I and II exhibited pronounced antipsychotic activity. The influence of fluorosubstitution and variation of the fused ring system were measured. 120107-24-6F
RL: RCT (Reactant): SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization reaction of, pyrazinobenzodiazepine derivative from)
120107-24-6 CAPLUS
2-Thiophenceraboxamide, N-{{1-(2-fluorophenyi)-4-methyl-2-piperazinyl)methyl}-, dihydrochloride (9CI) (CA INDEX NAME)

**Erich Leese** 

10/513699

The synthesis of the title compds. (I. R = H, Me; RI = H, halo; R2 \*H, OMe, halo, NO2, alkyl; R3 = halo. Me, OMe) is described. The in vitro biol. investigation showed that I (R = R1 H; R2 = 3-NO2; R3 = 4-Cl) had considerable antibacterial activity against gram-pos. microorganisms and antifungal activity against Candida rugosa, while the other I did not show significant activity.

120244-18-0P
RL: SPN (Synthetic preparation), PREP (Preparation)
(preparation of)

120244-18-0 CAPLUS
2-Propenoic acid, 3-amino-3-[3-methyl-4-(4-methylphenyl)-1-piperazinyl]-, ethyl ester (CA INDEX NAME)

IT

L9 ANSWER 65 OF 134 ACCESSION NUMBER: DOCUMENT NUMBER;

AUTHOR (S) :

CAPLUS COPYRIGHT 2007 ACS on STN
1989:173198 CAPLUS
110:173198 1,4-Benzodiazepines and 1,5-benzodiazocines. X1.
Synthesis and biological activity
Heitmann, Naiter, Liepmann, Hans; Maetzel, Uwe;
Zeugner, Horstr Fuchs, Andreas M., Krashling, Hermann;
Ruhland, Michael; Mol, Frans; Tulp, Martin T. M.
Pharm, Div., Kali-Chemie A.-G., Hannover, D-3000, Fed.
Rep. Ger.
European Journal of Medicinal Chemistry (1988), 23(3), 249-56
CODEN; EJMCAS; ISSN: 0223-5234
Journal
English

CORPORATE SOURCE:

DOCUMENT TYPE:

<12/04/2007>

Brich Leese

10/513699

120107-04-2P

120107-04-2P

K: SPN (Synthetic preparation), PREP (Preparation)
(preparation and hydraxonolysis of)
10107-04-2 CAPLUS
1H-1soIndole-1,3(2H)-dione, 2-([1-{2-(luorophenyl)-4-methyl-2-piperaxinyllmethyl)-1 (9C1) (CA INDEX NAME)

120107-10-0P Laulur-lu-OP
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
 (preparation and intramol. cyclization of, pyrazinobenzodiazepine derivative from)

from)
120107-10-0 CAPLUS
2-Thiophenecarboxamide, N-[[4-methyl-1-(2-methylphenyl)-2-piperazinyl]methyl]- (9CI) (CA INDEX NAME)

120107-03-1P
RL: RCT (Reactant); SPN (Synthetic preparation), PREP (Preparation); RACT (Reactant or reagent)
(preparation and memulation of)
120107-03-1 CAPLUS

120107-03-1 CAPLUS 2-Piperazinemethanol, 1-(2-fluorophenyl)-4-methyl- (9CI) (CA INDEX NAME)

120107-22-4P RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

10/513699

(preparation and reaction with potassium phthalimide)
120:107-22-4 CAPUUS
2-Piperazinemethanol, 1-(2-fluorophenyl)-4-methyl-, methanesulfonate
(ester) (9C1) (CA INDEX NAME)

120107-23-SP
RL: RCT (Reactant), SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with thiophenecarbonyl chloride)
120107-23-5 CAPLUS
2-Piperazinemethanamine, 1-(2-fluorophenyl)-4-methyl- (9CI) (CA INDEX NAME) IΤ

IT 120107-05-3P

120107-05-19

KL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
120107-05-3 CAPLUS
2-Thiophenecarboxamide, N-[[1-(2-fluorophenyl)-4-methyl-2-piperaxinyl]methyl]- (9C1) (CA INDEX NAME)

120107-09-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation, hydrazinolysis, and reaction with thiophenecarbonyl chloride)
120107-09-7 CAPLUS
III-Isolndole-1.3 (2H)-diome, 2-([4-methyl-1-(2-methylphenyl)-2piperazinyl)methyl)- (9C1) (CA INDEX NAME)

<12/04/2007>

Erich Leese

RL: USES (Uses)
(magenta image stabilizer, for light stability)
117209-45-7 CAPLUS
1-Piperazinebutanoic acid, 3-octyl-4-phenyl- (9CI) (CA INDEX NAME)

L9 ANSMER 67 OF 134
ACCESSION NUMBER:
DOCUMENT NUMBER:
198:473142 CAPLUS
109:73142
New 1-aubstituted 3-aryl-7-chloro-3.4-dihydro-2N-acridone N-oxides, a procedure for their preparation, formulations containing them, and their use as pharmaceuticals and feed additives
Dhar. Rajkumar: Venugopalan, Bindumadhavan;
Chatterjee, Dipak Kumar; Rupp, Richard Melmut; De Souza, Noel John
PATENT ASSIGNEE(8):
SOURCE:
DOCUMENT TYPE:
COCUMENT TYPE:
LANGUAGE:
PATENT ACC. NUM.. COURT:
Qerman
PATENT ACC. NUM.. COURT:

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	PAT	ENT	NO.			KIND	DATE	APPLICATION NO.	DATE
					-				
	DE	362	4702			A1	19880204	DE 1986-3624702	19860722 <
	IN	164	921			A1	19890708	IN 1986-B0149	19860515 <
	EP	254	224			A2	19880127	EP 1987-110365	19870717 <
	EP	254	224			A3	19890419		
		R:	A7	г. в	. CH.	DE, ES	S, FR, GB,	OR, IT, LI, LU, NL, SE	
	ZA	870	5297	, '		A	19880330	ZA 1987-5297	19870720 <
	US	480	3 2 0 4			A	19890207	US 1987-75643	19870720 <
	DK	870	3802	:		A	19880123	DK 1987-3802	19870721 <
	JP	630	3336	5		· A	19880213	JP 1987-180207	19870721 <
	HU	445	16			A2	19880328	HU 1987-3360	19870721 <
	AT	870	2609	,		A	19881215	AT 1987-2609	19871008 <
	AT	388	553			B	19890725		
RIC	RITY	AP	PLN.	INE	0.:			DE 1986-3624702	A 19860722
THE	R \$0	URÇ	E (S)	4		MARPAT	109:73142		

120107-08-6P
RL: RCT (Reactant); SPN (Bynthetic preparation), PREP (Preparation); RACT (Reactant or reagent)
(preparation, mesylation, and reaction with potassium phthalimide)
120107-08-6 CARLUS
2-Piperarinemethanol, 4-methyl-1-(2-methylphenyl)- (9CI) (CA INDEX NAME) IT

L9 ANSMER 66 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1988-661296 CAPLUS
DOCUMENT NUMBER: 1998-021296
TITLE: Photographic material for light-stable images
PATENT ASSIGNEE(S): Source: Shiriji Nakagwa, Satoshi; Kaneko, Yutaka;
SUURCE: Apan Source: Open State Source: Apan Source

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

APPLICATION NO. PATENT NO. KIND DATE DATE Α...

JP 53101848 A 19880505 JP 1986-246728 19861017 <-PRIORITY APPLIM. INFO: A 19880505 JP 1986-246728 19861017 <-PRIORITY APPLIM. INFO: DIVERSITY OF 1986-246728 19861017 <-OI For diagram(s), see printed CA Issue.
A A A phalide photog. material contains 21 magenta couples I [Z = atom required to complete N heterocycle; X = H. group releasable on reacting with oxidized form of color developing agent; R = H, substituent] and an image stabilizer II [R21 = 803M, C02M, M = H, monovalent metal; X = divalent organic group; Z = atoms required to form 5-7-membered N heterocycle]. Light-stable images are obtained and staining and fogging are minimized.

IT 117209-45-7

Brich Leese

10/513699

The title compds. I [R1,R3] = H, alkyl. carbalkoxy, Ph (un)gubstituted with alkyl. halo, or NH2; R2 = halo, CF3; n = 0-3; X = 0, N; when X = 0, R4= alkyl, when X = N, KR4 = dlalkylamino, 5- or 6-membered heterocyclyl optionally containing another heteroatom, optionally substituted with (un)substituted alkyl or Ph (un)substituted with alkyl, alkoxy, or halo), having high activity against the pathogens of malaria and coccidiosis, were prepared A suspension of 7-chloro-1,4-dihydro-10-hydroxy-1-(4-trifluoromethylphenyl)-1,9(2H,10H)-acridiodione in MeON was treated dropwise with pyrrolidine at room temperature to give 78% I [R1 = R3 = H, (R2)n = 4-CP3, XR4 = pyrrolidine]. At 10-25 mg | J kg + 5 in nice infected with Plasmodium berghel, complete healing was achieved.

55117-80-1, 1-(4-chlorophenyl)-2-methylpiperarine
RL: RCT (Reactant), RACT (Reactant or reagent)
(aminollysis by, of hydroxyacridinedione derivative)

55117-80-1 CAPLUS
Piperazine, 1-(4-chlorophenyl)-2-methyl) (CA INDEX NAME)

L9 ANSWER 68 OF 134
ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:

CAPLUS COPYRIGHT 2007 ACS on STN 1986:620995 CAPLUS 105:1220995 Piperazinylmethyl-1,2,4-triazolylmethylcarbinol fungicide 

INVENTOR (S):

DOCUMENT TYPE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
DE 3508909	A1 19860918	DE 1985-3508909	19850313 <
US 4738962	A 19880419	US 1986-832502	19860221 <
EP 198191	A1 19861022	EP 1986-102767	19860303 <
EP 198191	B1 19890906		
R: AT. BE. CH.	DE, FR, GB, IT, 1	LI. NL. SE	
AT 46152	T 19890915	AT 1986-102767	19860303 <
AU 8654433	A 19861016	AU 1986-54433	19860307 <
JP 61212568	A 19860920	JP 1986-51578	19860311 <
DD 243848	A5 19870318	DD 1986-287770	19860311 <
DK 8601144	A 19860914	DK 1986-1144	19860312 <
BR 8601052	A 19861125	BR 1986-1052	19860312 <
ZA 8601843	A 19861126	ZA 1986-1843	19860312 <
HU 42280	A2 19870728	HU 1986-1060	19860313 <
ES 552966	A1 19871101	ES 1986-552966	19860313 <
PRIORITY APPLN. INFO.:	A1 150.1101	DE 1985-3508909 A	
PRIORITY APPLIA, INFO,:		EP 1986-102767 A	
			19660303
OTHER SOURCE(S):	CASREACT 105:2209	795	

The title compds. I (R = substituted alkyl, alkenyl, alkynyl, cycloalkyl, aryl, aralalkyl, arylocyalkyl, arylthioalkyl, R1 = N, alkyl, R2 = substituted alkyl, alken), cycloalkyl, arylthioalkyl, R1 = N, alkyl, R2 = substituted alkyl, alken), cycloalkyl, aryl heterocyclyl, Z = C0, 802, p aryly arylthioalkyl, aryl heterocyclyl, Z = C0, 802, p arylthioalkyl, arylthioa

<12/04/2007>

Erich Leese

# 10/513699

	NAME OF THE PROPERTY OF THE PARTY OF THE PAR
PATENT INFORMATION:	
PAMILY ACC. NUM. COUNT:	1
LANGUAGE:	English
DOCUMENT TYPE:	Patent
	CODEN: EPXXDW
· SOURCE :-	Eur. Pat. Appl., 113 pp.
PATENT ASSIGNEE(S):	Janssen Pharmaceutica N. V., Belg.
INVENTOR (S);	Heeres, Jan; Stokbroekx, Raymond A.; Backx, Leo J. J.
	1H-1,2,4-triazoles
	dioxolan-2-yl]methyl]-1H-imidazoles and
TITLE:	[[4-[4-(4-Phenyl-1-piperazinyl)phenoxymethyl]-1,3-
DOCUMENT NUMBER:	102:132069
ACCESSION NUMBER:	1985:132069 CAPLUS
	APLUS COPYRIGHT 2007 ACS on STN

	PA1	ENT NO.		K:	ND		DATE				CATION			DATE	
													-		
	EP	118138			۱.		1984	912	EP	1:	984-200	092		19840124	<
	EP	118138			31		1989								
		R: AT,	BE, C	CH, DI	2, 1	FR,	GB,	IT,	LI, L	U,	NL, SE				
	US	4619931			4		1986	102B	US	15	984-569	122		19840109	<
	AT	44030			Г		1989	0615	TA	11	984-200	092		19840124	<
	CA	1271194			1		1990	0703	CA	. 19	984-447	194		19840210	<
	JP	59172486			4		1984	929	JP	1:	984-327	69		19840224	<
	JP	07042285		1	3		1995	0510							
	DK	8401070		i	١.		1984	0829	DK	- 11	984-107	0		19840227	<
	DK	164454		1	3		1992	0629							
	DK	164454			2		1992	1109							
	PΙ	8400781			4		1984	0829	FI	1:	984-781			19840227	<
	FΙ	82043			3		1990	0928							
	FI	82043			2		1991	0110							
	NO	8400735			١.		1984	0829	NO	1.5	984-735			19840227	<
	NO	160138		1	3		1988	1205							
	NO	160138			2		1989	0315							
	AU	8425097			١.		1934	906	AU	15	984 - 250	97		19840227	<
	ΑU	559461		1	32		1987	0312							
	ZA	8401449			١.		1985	1030	ZA	. 19	984-144	9		19840227	<
	IL	71066			١.		1987	1220	IL	1	984-710	56		19840227	<
	ES	530138			<b>A1</b>		1985	0516	ES	1:	984-530	138		19840228	<
	ES	530140			<b>A1</b>		1985	0601	ES	1:	984-530	140		19840228	<
	ĘS	530139			۱.		1985	901	ES	15	984-530	139		19840228	<
	US	4735942			4		1988	0405	US	15	986-869	537		19860602	<
	NO	8702221			4		1984	0829	ИО	15	987-222	1		19870527	<
	МО	163817		1	3		1990	0417							
	NO	163817			2		1990	0725							
	υs	4861879			١.		1989	0829	US	1:	988-154	173		19880209	<
	CA	1309412			2.2		1992	1027	CA	1:	989-615	528		19891025	<
	PI	84058		- 1	3		1991	0628	PI	1:	989-508	9		19891026	<
	PI	84058			2		1991								
	NO	9000396			١.		1984		NO	1:	990-396			19900129	<
		173866			3		1993								
		173866		•			1994								
		05246999			١.		1993		JP	1:	991-241	3 2		19910124	<
		07064823			3		1995								
		9100783			١.		1991				991-783			19910429	
		9101088			١.		1991		DK	1	991-108	8		19910607	<
		166673			31		1993	0628							
RIO	RITY	APPLN.	INPO.						US	1	983-470	405	Α	19830228	

### 10/513699

L9 ANSWER 69 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 1986;566904 CAPLUS
DOCUMENT NUMBER: 105:166904 CAPLUS
TITLE: 105:166904 CAPLUS
Herbicide antidote
Foery, Merner; Nyffeler, Andreas; Gerber, Hans Rudolf, Martin, Henry
Cource: Cur, Part, Appl., 143 pp.
COEN: EEXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German

German

German PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
EP 190105	A2 19860806	EP 1986-810046	19860127 <
EP 190105	A3 19881026		
R: BE, CH, DE,	FR, GB, IT, LI, NI		
CA 1278695	C 19910108	CA 1986-500569	19860129 <
BR 8600383	A 19861014	BR 1986-383	19860130 <
JP 61176504	A 19860808	JP 1986-20005	19860131 <
PRIORITY APPLN, INFO.:	•	CH 1985-418 A	19850131
OTHER SOURCE(S):	MARPAT 105:166904		
AB The dichloroacetamid	les RRINCOCHC12 (R,	R1 - H, (un) substituted	i alkyl,
alkenyl, cycloalkyl,	, cycloalkenyl, etc	:.; NRR1 - heterocyclic	radical) are
	6		1) 11 /4 4

alkenyl. cycloalkyl, cycloalkenyl, etc., NRR1 = heterocyclic radical) are prepared as antiotoes for the N-(3-enchoxycarbonylphenylaulfonyl.-N-(4,6-bisdifluoromethoxypyrimidin-2-ylluras (I) herbicide. Thus, condensation of N-(3,4-dimethoxybernyl)-N-isopropylamine (preparation given) wich Cl2cHCoCl, IN NON-containing MePh, at -10-to -15\*, gave N-(3,4-dimethoxybenzyl)-N-iso-Pr dichuloroacetanilide. When (HazicHCH2))NCOCHCl2 (280 g/hm) was applied to corn in tank mixture with 400 g J/hm, 75% protection against the phytotoxicity of I to the crop was observed 104767-29-SBU (Biological study). unclassified), SPN (Synthetic preparation), BBU (Biological study), unclassified), SPN (Synthetic preparation of, as antidote for sulfonylura herbicide) 104767-29-5 CAPLUS Piperazine, 4-(dichloroacetyl)-1-(4-methoxyphenyl)-2-methyl- (9CI) (CA INDEX NAME)

<12/04/2007>

Erich Leese

10/513699

US 1984-569122 EP 1984-200092 CA 1984-447194 PI 1984-781 NO 1984-735 US 1986-869537 9; MARPAT 102:132069

OTHER SOURCE(S):

CASREACT 102:132069:

Over 300 title compds. I [R = (un) substituted Ph; R1 = N, alkyl; R2 = uren, thiouren, amido, 5-membered N-containing heterocycle; X = N, CNI and their intermediates, useful as pharmaceutical fungicides, were prepared Thus, antline derivative II (83 = H) was treated with ClCO2Ph to give II (83 = CO2Ph). At 2.5 mg/kg orally, daily for 3 days in rats, II (83 = CO2Ph) controlled Candida albicans at the 14th day after infection.

95182-99-1P
RL: RCT (Reactant), SPN (Synthetic preparation), PREP (Preparation); RACT (Reactant or reagent)
(preparation and acylation of)

95182-99-1 CAPLUS
Phenol, 4-(2-methyl-1-piperaxinyl)-, dihydrobromide (9CI) (CA INDEX NAME)

### ●2 HBr

95182-92-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and arylation of)
95182-92-6 CAPLUS
Piperaxine, 1-(4-([2-(2,4-dichlorophenyl)-2-(1H-1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-4-yl]methoxy]phenyl]-2-methyl- (9CI) (CA INDEX NAME)

95182-91-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and deacylation of)
95182-91-5 CAPILUS
Piperaxine, 4-acetyl-1-[4-{[2-(2.4-dichlorophenyl)-2-(1H-1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-4-yl]methoxy]phenyl]-2-methyl- (9CI) (CA INDEX NAME)

<12/04/2007>

Brich Leese

### 10/513699

L9 ANSMER 71 OF 134
ACCESSION NUMBER:
DOCUMENT NUMBER:
1984:490876 CAPLUS
10:30876 CAPLUS
10:3

DOCUMENT TYPE: LANGUAGE: OTHER SOURCE(S): GI

Title compds. I (R - Ph. tolyl, ClC6H4, anisyl, Me. allyl), useful as central nervous system depressants, were prepared from pipernzines II (R) - Ph. tolyl, ClC6H4 anisyl, H). A mixture of II (R) - H) and carbonyldismidatole in THF was kept 11 days at room temperature, and the product was treated with NaH and MeI in DMF to give I (R - Me). SIS12-79-5 PRUS BMF (Synthetic preparation), PREP (Preparation) (preparation of) 91532-79-5 CAPUS II (R - ME). SISPERINGENESS PROPERINGENESS PRO

2-Piperazinecarboxylic acid, 1-phenyl-4-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

L9 ANSWER 72 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NIDMERS:
101:90674 CAPLUS
101:90671 Agents, XVI. Halogenated
Antimycofic agents, XVI. Halogenated
(cyanaminomethylene)piperidines and -piperazines
(cyanaminomethylene)piperidines and -piperazines
(cyanaminomethylene)piperidines and -piperazines
(cyanaminomethylene)piperidines and -piperazines
(cyanaminomethylene)piperidines
(cyanaminomethylene)piper

<12/04/2007> Erich Leese 10/513699

IT 35947-12-7P 35947-12-7P
RE: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation and hydrolysis of) 35947-12-7 CAPLUS Piperasine, 1-(4-methoxyphenyl)-2-methyl- (9CI) (CA INDEX HAME)

95182-90-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation), RACT (Reactant or reagent)
(preparation and reaction of, with dioxolanemethanol derivative)
95182-90-4 CAPLUS
Piperazine, 4-acetyl-1-(4-hydroxyphenyl)-2-methyl- (9CI) (CA INDEX NAME)

<12/04/2007>

Brich Leese

10/513699

Fed. Rep. Ger. Archiv der Pharmazie (Weinheim, Germany) (1984) , 317(5), 417-20 CODEN: ARPMAS, ISSN: 0365-6233 JOURNAL

DOCUMENT TYPE

LANGUAGE:

IT

55117-80-1
RL: RCT (Reactant), RACT (Reactant or reagent)
(reaction of, with cyanamide and triazine)
55117-80-1 CAPIUS
Piperazine, 1-(4-chlorophenyl)-2-methyl- (9CI) (CA INDEX NAME)

<12/04/2007>

Brich Leese

L9 ANSMER 73 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1984:422499 CAPLUS
DOCUMENT NUMBER: 101:23499
TITLE: Piperazine derivatives with anticholinergic and antinistaminic activity
Milani. Carlo; Carminati, Glovanni Maria; Sovera, Attilio
PATENT ASSIGNEE(S): Selvi e C. S.p.A., Italy
SOURCE: Selvi e C. S.p.A., Italy
DOCUMENT TYPE.

DOCUMENT TYPE: Patent

LANGUAGE:

FAMILY ACC. NUM. COUNT; PATENT INFORMATION:

PATENT' NO.	KIND	DATE	APPLICATION NO.	
BE 897828	A2	19840116	BE 1983-60212	19830927 <
US 4457931	A	19840703	US 1982-424512	19820927 <
ZA 8306949	A	19840530	ZA 1983-6949	19830919 <
JP 59089665	A	19840523	JP 1983-176190	19830922 <
JP 61039289	В	19860903		
FR 2533564	Al	19840330	FR 1983-15172	19830923 <
FR 2533564	В1	19861003		
DE 3334757	A1	19840329	DE 1983-3334757	19830926 <
ES 525953	A1	19860201	ES 1983-525953	19830926 <
AT 8303412	A	19880915	AT 1983-3412	19830926 <
AT 387964	В	19890410		
NL 8303311	Α	19840416	NL 1983-3311	19830927 <
GB 2135991	A	19840912	GB 1983-25839	19830927 <
GB 2135991	В	19851204		
ES 542946	A1	19860101	ES 1985-542946	19850416 <
ES 542947	A1	19860101	ES 1985-542947	19850416 <
ORITY APPLN. INFO .:			US 1982-424512	A 19820927

<12/04/2007>

Erich Leese

### 10/513699

2946-76-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with chloroethylmorpholine)
2946-76-1 CAPLUS
piperazine, 2-methyl-1-phenyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

L9 ANSMER 74 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION RUMBER: 1984:407184 CAPLUS
DOCUMENT NUMBER: 101:7184
TITLE: Pyridopyrimidinetriones, their use, and drugs containing them
INVENTOR(S): Klemm, kutr; Pruesse, Wolfgang; Baron, Lothar; Kilian, Ulrich; Sanders, Karl
PATENT ASSIONEE(S): Byk-Gulden Lomberg Chemische Fabrik G.m.b.H., Fed.
Rep. Ger.
SOURCE: Ger. Often., 50 pp.
CODEN: GMXXBX
PALENT

DOCUMENT TYPE:

Patent German

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

DATE PATENT NO. APPLICATION NO. DE 3326118
PRIORITY APPLN. 1NFO.:
OTHER SOURCE(S); DE 1983-3326118 CH 1982-4651 A1 19840209 19830720 <--A 19820802 MARPAT 101:7184

10/513699

Aminoalkylpiperazines I (X = alkylene; R = aryl, aralkyl, heterocyclic; R1 = H, alkyl; R2, R3 = H, alkyl, cycloalkyl, aryl; NR2R3 = heterocyclic) were prepared Thus, 1(2-pyrigyl)piperazine was treated with BicHMBCH2CO2Rt and the resulting ester reduced to the alc., brominated, and aminated with 1-admanntylamine to give II. II had an antienbolinergië EDSS In vitro of

1-adimmantylamine to give II. II had an anticholinergic EDSO in vitro of 0.001 ig/mm.
90476-58-7P 90478-80-5P
RL: SPN (Synthetic preparation), PREP (Preparation)
(preparation and anticholinergic and antihistaminic activity of)
90476-58-7 CAPLUS
Morpholine, 4-[2-(3-methyl-4-phenyl-1-piperazinyl)ethyll- (9CI) (CA INDEX NAME)

90476-80-5 CAPLUS Morpholine, 4-[2-(3-methyl-4-phenyl-1-piperazinyl)ethyl)-, trihydrochloride (9CI) (CA INDEX NAME)

● 3 HC1

<12/04/2007> Erich Leese

Title compds. (I) (R = H, Cl-5 alkyl, Rl = Cl-5 alkyl; R2 = H, Cl-3 alkyl, R3 = H, halo, Cl-4 alkyl or alkoxy, CF3; R4 = H, halo, Cl-4 alkyl or alkoxy) and their N-oxides and salts were prepared and shown to have antihypertensive activity. Thus, 8-(13-14-(2-methoxyphenyl)-1-piperazinyllpropyllaminol-1,3-dimethyluracil was added to CH3:CHCO2Et, and the product saponified, then cyclized by heating 1 h at 140\*/12-15 mbbr to give the pyridopyrisidinetrione II.
89988-10-6 PS 9999-11-2 activity or effector, except adverse); BSU (Biological study, unclassified) SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as antihypertensive)
9998-10-6 CADLUS
Pyridol(2,3-d)pyrimidine-2,4.7(1H,3H,6H)-trione, 5,8-dihydro-1,3-dimethyl-8-[3-(3-methyl-4-(4-methylphenyl)-1-piperazinyllpropyl)- (9Cl) (CA INDEX NAME)

89989-11-7 CAPLUS
Pyrido[2,3-d]pyrimidine-2,4,7(]H,3H,6H)-trione, 8-[3-[4-(4-chlorophenyl)-3-methyl-1-piperazinyl]propyl)-5,8-dihydro-1,3-dimethyl- (9CI) (CA INDEX NAME) RN CN

ĮТ

35947-11-6 55117-80-1
RL: RCT (Reactant); RACT (Peactant or reagent)
(reaction of, with (chloropropyl)pyridopyrimidinetrione derivs.)
35947-11-6 CAPIUS
Piperazine, 2-methyl-1-(4-methylphenyl)- (CA INDEX NAME)

55117-80-1 CAPLUS Piperazine, 1-(4-chlorophenyl)-2-methyl- (9CI) (CA INDEX NAME)

<12/04/2007>

Erich Leese

### 10/513699

1H-Purine-2,6-dione, 3,7-dihydro-1,3-dimethyl-7-{4-(3-methyl-4-phenyl-1-piperazinyl)butyl}- (9CI) (CA INDEX NAME)

81996-78-3 CAPLUS ||-Purine-2,6-dione, 3,7-dihydro-1,3-dimethy|-7-[5-(3-methy|-4-pheny|-1-|piperaziny||penty||- (9CI) (CA INDEX NAME)

81996-79-4 CAPLUS
1H-Purine-2,6-dione, 3,7-dihydro-7-{2-{4-(4-methoxyphenyl)-3-methyl-1piperasinyl|ethyl|-1,3-dimethyl- (9CI) (CA INDEX NAME);

81996-80-7 CAPLUS IH-Purine-2,6-dione, 3,7-dihydro-7-[5-[4-(4-methoxyphenyl)-3-methyl-1-piperazinyl|pentyl|-1,3-dimethyl- (9CI) (CA IMDEX NAME)

10/513699

L9 ANSMER 75 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1984:85510 CAPLUS
DOCUMENT NUMBER: 100.85510
TITLE: Theophylline derivatives as cerebral circulation improvers
PATENT ASSIGNEE(8): Sissi Co., Ltd., Japan
SOURCE: CODEN: JKXXAP
DOCUMENT TYPE: LANGUAGE: Japansee
LANGUAGE: JAPANES COUNT.

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

DATE APPLICATION NO. PATENT NO. KIND JP 58150511 PRIORITY APPLN. INFO.; 19830907 JP 1982-31686 JP 1982-31686 19820302 <---19820302

Ninety-five theophyllines I (R = H, Me; R1 = aryl, Ph2CH, pyridyl; n = 2-10) were prepared and were effective cerebral vasodilators at 0.1-10 µg/kg. Thus, refluxing 7-[2-bromoethyl]theophylline 6.3, piperazine II 5.7, and Exh 4.0 g in C6H6 18.5 h gave 42.5% I.RCl (R = H, R1 = p-chlorobenzhydryl, n = 2).

81996-78-19 81996-77-2P 81996-78-1P
81996-79-4P 81996-80-7P 81996-84-1P
RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
81996-76-1 CAPLUS
1H-Purine-2.6-dione, 3,7-dihydro-1,3-dimethyl-7-[2-(3-methyl-4-phenyl-1-piperazinyl)ethyl)- (9C1) (CA INDEX NAME) 8A

81996-77-2 CAPLUS

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81996-84-1 CAPLUS
1H-Purine-2,6-dione, 7-[7-[4-(3-chlorophenyl)-3-methyl-1piperaxinyl)heptyl)-3,7-dihydro-1,3-dimethyl-, monohydrochloride (9CI)
(CA INDEX NAME)

L9 ANSHER 76 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1984:68315 CAPLUS
DOCUMENT NUMBER: 100:68315
THEODOCOMENT ASSIGNEE(S): 818ai Co., Ltd., Japan
SOURCE: 200EN: JKXXAF
DOCUMENT TYPE: 200EN: JKXXAF
PATENT ASSIGNEE(S): 920EN: JKXXAF
DOCUMENT TYPE: 400EN: JKXXAF
PATENT ASSIGNEE(S): 340EN: 340E

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

DATE APPLICATION NO. DATE PATENT NO. KIND JP 58148820 PRIORITY APPLN, INFO.: 19820226 <--19830905

Pifty-five theobromine derivs. (1; R = H, alkyl; Rl = aryl, benzhydryl; n = 2-10) and their acid adducts, effective brain circulation improvers at 0.1-10 µg/kg, were prepared Thus, a mixture of theobromine derivative II 9.5, piperazine derivative III 3.6, and ELBM 4.0 g in MePh was refluxed 13 h to give 41.644 I (R = H, Rl = 2.3-xylyl, n = 4).
81995-72-4P 81995-73-75-P 81995-73-75-P 81995-73-79-P 81995-76-79 Russenson 1-7P
RL: SPN (Synthetic preparation), PREP (Preparation) (preparation of) 81995-72-4 CAPLUS
HI-Purine-2.6-dione, 3,7-dihydro-3,7-dimethyl-1-[3-(3-methyl-4-phenyl-1-piperazinyl)propyl)- (9CI) (CA INDEX NAME)

81995-73-5 CAPLUS 1H-Purine-2,6-610no, 3,7-dihydro-3,7-dimethyi-1-[4-(3-methyl-4-phenyl-)-piperazinyi)butyl]- (9C1) (CA INDEX HAME)

<12/04/2007>

Erich Leese

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81995-78-0 CAPLU8
11-Purine-2,6-dione, 3.7-dihydro-1-(4-[4-(4-methoxyphenyl)-3-methyl-1piperazinyl]butyl]-3,7-dimethyl- (9Cl) (CA INDEX NAME)

81997-11-7 CAPLUS
1H-Purine-2.6-dione, 3.7-dihydro-3.7-dimethyl-1-[2-(3-methyl-4-phenyl-1-piperazinyl)ethyl]- (9CI) (CA INDEX NAME)

L9 ANSMER 77 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 1983:600512 CAPLUS DOCUMENT NUMBER: 99:200512 Composition for the transcent

1943; 500512 CAPLUS
99; 200512
Composition for the treatment of pain, fever, tissue and/or bone and joint inflammation, containing theobromine or theophylline derivatives as active constituents
Kaneko, Takeru; Ozaki, Satoru; Takizawa, Kimie; Sugimoto, Hachiro
Elasi Co., Ltd., Japan
Ger. Offen. 90 pp.
CODEN: OWXXEX
Patent
German
1

INVENTOR (S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: PAMILY ACC. NUM. COUNT: 10/513699

81995-74-6. CAPLUS IH-Purine-2,6-dione, 3,7-dihydro-3,7-dimethyl-1-[5-(3-methyl-4-phenyl-1-piperaxinyl)pentyl] - (9CI) [CA INDEX NAME]

81995-75-7 CAPLUS 1h-Purine-2.6-dione, 3.7-dihydro-3.7-dimethyl-1-[6-(3-methyl-4-phenyl-1-piperazinyl)hexyl]- (9CI) (CA INDEX NAME)

81995-76-8 CAPLUS 1H-Purine-2,6-dione, J,7-dihydro-1-(2-[4-(4-methoxyphenyl)-3-methyl-1-piperazinyllethyll-3,7-dimethyl- (9CI) (CA INDEX NAME)

81995-77-9 CAPLUS
1H-Purine-2.6-dione, 3,7-dihydro-1-(3-[4-(4-methoxyphenyl)-3-methyl-1-piperarinyl)propyl)-3,7-dimethyl- (9CI) (CA INDEX NAME)

<12/04/2007>

Erich Leese

# 10/513699

### PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
				-	
DE 3307395	A1	19830908	DB 1983-3307395		19830302 <
JP 58148818	A	19830905	JP 1982-31684		19820302 <
JP 01018050	В	19890403			
JP 58148819	A	19830905	JP 1982-31685		19820302 <
JP 01013689	В	19890307			
EP 87810	A1	19830907	EP 1983-102019		19830302 <
EP 87810	91	19860625			
R: BE, CH, DE,	FR, GE	, IT, LI, NI	., 8E		
US 4543254	A	19850924	US 1983-471564		19830302 <
US 4599337	A	19860708	US 1985-755404		19850716 <
PRIORITY APPLN, INFO.:			JP 1982-31684	Α	19820302
			JP 1982-31685	A	19820302
			US 1983-471564	A3	19830302
OTHER SOURCE(S):	CASREA	CT 99:200512	, MARPAT 99:200512		

I, in which one of A and B is Me and the other is Q (R is H or lower alkyl, Z is CSHIXMX2 [X1 and X2 are H. lower alkyl or alkoxy, P3C, or halogen], pyridyl, or CH(CSH4Y1) (CSH4Y2) [Y1 and Y2 are H. lower alkyl or alkoxy, P3C, or halogen], X is N or C, M is 2 or 3, and n is 2-10] are analgesics, antipyretics, and inflammation inhibitors. Analgesic activity (EDSD), LDDG, and LDSP/EDSF artio values of representative compds. in mice and rats, antipyretic, and antiphlogistic activities are reported. Thus, 7-(2-bromeethyl)thencphylline [23146-05-6] and 1-(p-chlorobenzhydryl)pjperazine [303-26-4) were refluxed with RIN in CSHG, the EUN-RIC obtained was filtered, the filtrate was extracted with diluce HCl, made alkaline and extracted with CHCl3. The extract was washed, dried, lorated, and the crystals were converted to the HCl salt and recrystd. from Me Cellosolve-H2O to obtain 7-{2-{4-(p-chlorobenzhydryl)pjperazinyl]ethyl)the ophylline-2HCl [22013-70-5]. Formulation of tablets and capsules with typical exciptents is described.

81995-72-4P 81995-73-5P 81995-74-6P 81995-77-9P 81995-73-0P 81995-73-6P 81996-77-2P 81995-78-0P 81996-76-1P 81996-78-0P 81996-78-1P 81996-78-1P

81997-11-7P B7/38-78-5.
RI: THU (Therapeutic use): BIOL (Biological study): PREP (Preparation);
USES (Uses)
(preparation of, for analgesics and antipyretics and inflammation inhibitors)
81995-72-4 CAPLUS
1H-Purine-2, 6-dione, 3,7-dihydro-3,7-dimethyl-1-[3-(3-methyl-4-phenyl-1-piperazinyl)propyl]- (9CI) (CA INDEX NAME)

<12/04/2007>

Brich Leese

81995-73-5 CAPLUS
1H-Purine-2,6-dione, 3,7-dihydro-3,7-dimethyl-1-{4-(3-methyl-4-phenyl-1-piperazinyl)butyl}- (9CI) (CA INDEX NAME)

81995-74-6 CAPLUS 1H-Purine-2,6-dione, 3,7-dihydro-3,7-dimethyl-1-[5-(3-methyl-4-phenyl-1-piperazinyl)pentyl]. (9C1) (CA 1MDEX NAME)

81995-75-7 CAPLUS |H-Purine-2,6-dione, 3,7-dihydro-3,7-dimethyl-1-[6-(3-methyl-4-phenyl-1-piperazinyl)hexyl|- (9CI) (CA INDEX NAME)

<12/04/2007>

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81996-77-2 CAPLUS 1H-Purine-2,6-00ne, 3,7-dihydro-1,3-dimethyl-7-[4-(3-methyl-4-phenyl-1-piperaxinyl)butyl|- (9Cl) (CA INDEX NAME)

81996-79-4 CAPLUS
1H-Purine-2,6-dione, 3,7-dihydro-7-[2-[4-(4-methoxyphenyl)-3-methyl-1-piperaxinyl]ethyl]-1,3-dimethyl- (9CI) (CA INDEX NAME)

81996-80-7 CAPLUS
1H-Purine-2.6-dione, 3,7-dihydro-7-[5-[4-(4-methoxyphenyl)-3-methyl-1-piperazinyl)pentyl)-1,3-dimethyl- (9CI) (CA IMDEX NAME)

Erich Leese

81995-76-8 CAPLUS
IH-Purine-2,6-dione, 3,7-dihydro-1-(2-(4-(4-methoxyphenyl)-3-methyl-1-piperazinyl)ethyl)-3,7-dimethyl- (9C1) (CA INDEX NAME)

81995-77-9 CAPLUS
1M-Purine-2.6-dione, 3.7-dihydro-1-[3-[4-(4-methoxyphenyl)-3-methyl-1-piperarinyllpropyl)-3.7-dimethyl- (9CI) (CA INDEX NAME)

81995-78-0 CAPLUS
1H-Purine-2.6-dione, 3.7-dihydro-1-[4-[4-(4-methoxyphenyl)-3-methyl-1-piperzinjl)buryl]-3,7-dimethyl- (SCI) (CA INDEX NAME)

81996-76-1 CAPLUS 1H-Purine-2,6-dione, 3,7-dihydro-1,3-dimethyl-7-{2-(3-methyl-4-phenyl-1-piperaxinyl)ethyl]- (9CI) (CA INDEX NAME)

<12/04/2007>

Erich Leese

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81996-84-1 CAPLUS
1H-Purine-2,6-dione, 7-[7-[4-(3-chlorophenyl)-3-mothyl-1-piperazinyl]heptyl]-3,7-dihydro-1,3-dimethyl-, monohydrochloride (9CI)
(CA INDEX NAME)

● HC3

81997-11-7 CAPLUS 1H-Purine-2,6-dione. 3,7-dihydro-3,7-dimethyl-1-[2-(3-methyl-4-phenyl-1-piperazinyl)ethyll- (9CI) (CA INDEX NAME)

87798-78-5 CAPLUS
1H-Purine-2,-6-dione, 3,7-dihydro-1,3-dimethyl-7-[3-(3-methyl-4-phenyl-1-phenyl)propyll- (9CI) (CA INDEX NAME)

L9 ANSWER 78 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 1983:470678 CAPLUS
DOCUMENT NUMBER: 99:70678
TITLE: Chemistry of 1.3-bifunctional compounds. XXVII.
Preparation of 4-N-substituted piperalnyl-1-propyl

AUTHOR (S):

CORPORATE SOURCE:

esters
Pelfoldi, K.; Molnar, A.; Apjok, J.; Czombos, J.;
Notheisz, F.; Karpati, E.
Dep. Org. Chem., Jozsef Attila Univ., Szeged, 6720,
Hung.
Acta Physics et Chemica (1982), 28(3-4),
225-44
CODEN: AUSHAF; ISSN: 0001-6721

DOCUMENT TYPE: LANGUAGE; OTHER SOURCE(S): GI English CASREACT 99:70678

RCO2 (CH2) 3N

N-Piperazinepropanol esters I [R = Ph, methoxy-, halo-, or methylphenyl, xanthenyl, methoxycyclohexyl, furyl, Rl = H. Me; R2 = alkyl, alkenyl, cyclohexylmethyl, phenylalkyl, PhocHzCH2, COZEL, PhCH:CHCH2, 26.5-McZC6H3MHCOCH2, Ph, tolyl, McZC6H3, anisyl, chlorophenyl, F3CC6H4, pyridyl, (un)substituted benzyl) were prepared Some of the above products exhibited antiarrhythmic activity. Thus, 1-(3-hydroxypropyl)-4-isopropylpiperazine was treated with 3-MeoC6H4COCl to give I (R = 3-MeoC6H4, R1 = H, R2 = CHMe2).
86571-52-0P
RL: RCT (Reactant): SFN (Synthetic preparation); PREP (Preparation), RACT (Reactant or resgent)
(preparation and esterification by, of acid chlorides)
86571-52-0 CAPLUS
1-Piperazinepropanol, 3-methyl-4-(4-methylphenyl)- (9CI) (CA INDEX NAME)

(CH2) 3 - OH

86571-63-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and esterification by, of benzoyl chlorides)
86571-53-1 CAPLUS
1-Piperazinepropanol, 4-(4-methoxyphenyl)-3-methyl- (9CI) (CA INDEX NAME)

<12/04/2007>

Erich Leese

10/513699

CH2) 3

86571-90-6 CAPLUS 9H-Xanthene-9-ratboxylic acid, 3-(3-methyl-4-(4-methylphenyl)-1-piperazinyllpropyl ester, dihydrochloride (9C1) (CA INDEX NAME)

●2 HC1

86572-02-3 CAPLUS Benzolc acid, 2-methyl-, 3-[4-(4-methoxyphenyl)-3-methyl-1-piperarinyllpropyl ester, dihydrochloride (9C1) (CA INDEX NAME)

10/513699

(CH2) 3 - OH

86571-88-2P 86571-89-3P 86571-90-6P 86572-02-3P 86572-03-4P 86585-77-5P RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of) 86571-88-2 CAPLUS Benzoic acid, 2-chloro-, 3-[3-methyl-4-(4-methylphenyl)-1-piperazinyl]propyl ester, dihydrochloride (9CI) (CA INDEX NAME) IT

86571-89-3 CAPLUS Benzolc acid, 3-methoxy-, 3-[3-methyl-4-(4-methylphenyl)-1-piperazinyllpropyl ester, dihydrochloride (9CI) (CA INDEX NAME)

<12/04/2007>

Erich Leese

10/513699

86572-03-4 CAPLUS
Benzoic acid, 3-methoxy-, 3-{4-(4-methoxyphenyl)-3-methyl-1piperazinyljpropyl ester, dihydrochloride (9CI) (CA INDEX NAME)

(ÇH2)3 ■2 HC1

<12/04/2007>

86585-77-5 CAPLUS
1-Piperazinepropanol, 4-(4-methoxyphenyl)-3-methyl-, benzoate (ester), dihydrochloride (9CI) (CA INDEX NAME)

● 2 HC1

35947-11-6 35947-12-7
RL: RCT (Reactant): RACT (Reactant or reagent)
(M-alkylation of, by chloropropanol)
35947-11-6 CAPLUS
Piperasine, 2-methyl-1-(4-methylphenyl)- (CA INDEX NAME)

35947-12-7 CAPLUS Piperazine, 1-(4-methoxyphenyl)-2-methyl- (9CI) (CA INDEX NAME)

<12/04/2007>

# 10/513699

The title derivs. I [R, R1 = Me, Q [R2 = H, alkyl, R3 = (un)substituted Ph. (un)substituted diphenylmethyl, X = N, CH; n = 2-10]) were prepared Thus, 7-(4-bromobutyl)theophylline was treated with 1-(0-methoxyphenyl)piperazine to give 37.6 theophylline II. At 0.1 µg/kg the visodilator II.2 HCl increased the arterial blood flow. I also had central nervous system, antihistaminic, analgesic, antihypertensive, and antiasthmatic activity (no data). 81995-72-78 81995-73-59 81995-74-6P 81995-74-6P 81995-75-79 81995-76-8P 81995-77-2P 81996-76-3P 81995-78-10-10 1995-78-10 1995-

81995-73-5 CAPLUS
1H-PUrine-2.6-10ne, 3,7-dihydro-3,7-dimethyl-1-[4-(3-methyl-4-phenyl-1;
piperaxinyl)butyl)- (9CI) (CA INDEX NAME)

81995-74-6 CAPLUS 1H-Purine-2,6-dione, 3,7-dihydro-3,7-dimethyl-1-[5-(3-methyl-4-phenyl-1-piperaxinyl)pentyll (9CI) (CA INDEX NAME)

Erich Leese

### 10/513699

CAPLUS COPYRIGHT 2007 ACS on STN 1982:438769 CAPLUS 97:38769 Derivatives of theophylline and theobromine Eisai Co., ttd. , Japan Belg., 59 pp. CODEN: BEXXAL Patent French L9 ANSWER 79 OF 134
ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:
PATENT ASSIGNEE(S):

DOCUMENT TYPE:

PATENT INFORMATION:			•	
	KIND		APPLICATION NO.	
BE 890222	A1	19820104		19810904 <
JP 57046983	A	19820317		
JP 57046984	A	19820317	JP 1980-121713	19800904 <
JP 63060756	В	19881125		
US 4426383	A	19840117	US 1981-298227	19810831 <
NL 8104073	A	19820401	NL 1981-4073	19810902 <
SE 8105240	A	19820305	SB 1981-5240	19810903 <
SE 456910	В	19881114		
SE 456910	С	19890309	,	
GB 2083470	Α.	19820324	GB 1981-26653	19810903 <
GB 2083470	В, ,	19840912		
DE 3134929	A1	19820609	DE 1981-3134929	19810903 <
CA 1172632	Al	19840814	CA 1981-385142	19810903 <
CH 651042	AS	19850830	CH 1981-5675	19810903 <
PR 2489331	Al	19820305	PR 1981-16855	19810904 ***
PR 2489331	Bì	19841130		
US 4564617	A	19860114	US 1983-484044	19830411 <
· SE 8704599	A	19871120		19871120 <
SE 457083	B	19881128	00 100, 1000	
SE 457083	č	19890323		
RIORITY APPLN. INFO.:	C	19890323	JP 1980-121712 A	19800904
RIGHTI REFUN, INFO.;				19800904
				3 19810831
			US 1981-29822/ A	7 18010021

OTHER SOURCE(S):

US 1981-298227 CASREACT 97:38769; MARPAT 97:38769

<12/04/2007>

Erich Leese

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81995-75-7 CAPLUS 1H-Purine-2,6-dione, 3,7-dihydro-3,7-dimethyl-1-[6-(3-methyl-4-phenyl-1-piperazinyl)hexyll- (9C1) (CA INDEX NAME)

81995-76-8 CAPLUS
1H-Purine-2.6-dione, 3,7-dihydro-1-[2-[4-(4-methoxyphenyl)-3-methyl-1-piperazinyl|tethyl]-3,7-dimethyl- (9CI) (CA INDEX NAME)

81995-77-9 CAPLUS
1H-Purine-2,6-dione, 3,7-dihydro-1-(3-[4-(4-methoxyphenyl)-3-methyl-1-piperaxinyllpropyl)-3,7-dimethyl- (9C1) (CA INDEX NAME)

<12/04/2007>

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81995-78-0 CAPLUS
1H-Purine-2,6-dione, 3,7-dihydro-1-14-[4-(4-methoxyphenyl)-3-methyl-1-piperaxinyl|butyl|-3,7-dimethyl- (9CI) (CA INDEX NAME)

81996-76-1 CAPUS 1M-Purine-2,6-dione, 3,7-dihydro-1,3-dimethyl-7-[2-(3-methyl-4-phenyl-1-piperaxinyl)ethyll- (9C1) (CA INDEX NAME)

81996-77-2 CAPLUS 1H-Purine-2,6-didné 3,7-dihydro-1,3-dimethyl-7-[4-(3-methyl-4-phenyl-1-piperazinyl)butyl)- (9CI) (CA INDEX NAME)

81996-78-3 CAPLUS 1H-Purine-2,6-dione, 3,7-dihydro-1,3-dimethyl-7-[5-(3-methyl-4-phenyl-1-piperazinyl)pentyl)- (9CI) (CA INDEX NAME)

<12/04/2007>

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81997-11-7 CAPLUS 1H-Purine-2,6-dijn-piperazinyl)ethyll- (9CI) (CA INDEX NAME)

75348-33-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with (haloalkyl)theophylline)
75348-33-3 CAPLUS
Piperazine, 1-(3-chlorophenyl)-2-methyl- (9CI) (CA INDEX NAME)

2946-76-1 35947-12-7
RE: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with (haloalky))theophylline and (bromoalkyl)theobromine)
2946-76-1 CAPLUS
(Piperazine, 2-methyl-1-phenyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

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81996-79-4 CAPLUS
1H-Purine-2,6-dione, 3,7-dihydro-7-|2-[4-(4-methoxyphenyl)-3-methyl-1-piperaxinyllethyl)-1,3-dimethyl- (SCI) (CA INDEX NAME)

81996-80-7 CAPLUS
1H-Purine-2,6-dione, 3,7-dihydro-7-{5-{4-(4-methoxyphenyl)-3-methyl-1-piperazinyl]pentyl]-1,3-dimethyl- (9CI) (CA INDEX NAME)

81996-84-1 CAPLUS
1H-Purine-2.6-dione, 7-[7-[4-(3-chlorophenyl)-3-methyl-1piperazinyl|heptyl|-3,7-dihydro-1,3-dimethyl-, monohydrochloride (9CI)
(CA INDEX NAME)

<12/04/2007>

Erich Leese

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35947-12-7 CAPLUS Piperazine, 1-(4-methoxyphenyl)-2-methyl- (9CI) (CA INDEX NAME)

L9 ANSWER 80 OF 134
ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:
PATENT ASSIGNEE(S):
SOURCE:

CAPLUS COPYRIGHT 2007 ACS on STN 1981:491203 CAPLUS 95:91203 Central nervous system depressants Otsuka Pharmaceutical Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 48 pp. CODEN: JKXXAP

Patent

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

KIND A B DATE 19810428 19900319 APPLICATION NO. DATE JP 56046812 JP 02012204 PRIORITY APPLN, INFO.: JP 1979-124878 19790927 <--JP 1979-124878 A 19790927

5-[2-Hydroxy-3-(4-phenylpiperazinyl)propoxy]-3,4-dihydrocarbostyril-HCl
(I) [72566-28-0] and its analogs are central nervous system depressants.

<12/04/2007>

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Thus, I and its analogs increased the anesthetic effect of halothane in mice. I was synthesized by treating 5-(2,3-epoxypropoxy)-3,4-dihydrocarbostyril [51781-14-7] with 4-phenylpiperazine [92-54-6]. Similarly, apprx.100 analogs were synthesized. 55117-80-1 [Rt. BIOL (Biological study) (condensation of, with (chloropropoxy)dihydrocarbostyril) [55117-80-1 CAPLUS Piperazine, 1-(4-chlorophenyl)-2-methyl- (9CI) (CA INDEX NAME)

76808-65-6P
RL: SPM (Synthetic preparation); PREP (Preparation) (preparation of)
76808-65-6 CAPLUS
2(1H)-Ouinolinone, 7-[3-[4-(4-chlorophenyl)-3-methy)

76808-65-6 CAPLUS 2(1H)-Quinolinone, 7-[3-[4-(4-chlorophenyl)-3-methyl-1-piperazinyl|propoxy|-3,4-dihydro-, dihydrochloride (9CI) (CA INDEX NAME)

### ●2 HC1

L9 ANSMER 81 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 1981:425127 CAPLUS
DOCUMENT NUMBER: 95:25127
Carboetyril derivatives
OURCE: OURCE: OUR Pharmaceutical Co., Ltd., Japan
SOURCE: JEXXXAP

Japanese 1

DOCUMENT TYPE: LANGUAGE: PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. DATE APPLICATION NO. DATE

<12/04/2007>

Erich Leese

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ANSWER 83 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN

SIGN NUMBER: 1981:192375 CAPLUS

HINT NUMBER: 94:192375
E: 4-Aryl-5-piperarinoalkyl-1,3-dioxol-2-ones, and compositions

NTOR(S): Cascio, Giuseppe, Fregnan, Giancarlo, Manghisi, Elso;
Porta, Roberto

NT ASSIGNEE(S): 15tituto Luso Parmaco d'Italia SpA, Italy

US., 6 pp. US., 6 pp INVENTOR (S)

PATENT ASSIGNEE(S): SOURCE:

U.S., 6 pp. CODEN: USXXAM Patent English 2 DOCUMENT TYPE:

LANGUAGE: PAMILY ACC, NUM, COUNT:

	T INFORMATION:	-						
	PATENT NO.	KIND	DATE	AP	PLICATION NO.		DATE	
	US 4235904	A	19801125	US	1979-16135		19790301	<
	AU 7944404	A	19790906	AU	1979-44404		19790220	<
	AU 518565	B2	19811008					
	CH 639970	A5	19831215	СH	1979-1825		19790223	<
	FR 2418796	A1	19790928	FR	1979-4928		19790227	<
	FR 2418796	B1	19810724					
	ZA 7900922	A	19800227	ZA	1979-922		19790227	٠
	CA 1158242	Al	19831206	CA	1979-322408		19790227	<
	NL 7901583	A	19790905	NL	1979-1583		19790228	<
	NL 177404	В	19850416					
	NL 177404	c	19850916					
	DE 2908148	A1	19790906	DE	1979-2908148		19790302	<
	DE 2908148	C2	19860807					
	ES 478696	A1	19800816		1979-478696		19790302	
	JP 54130569	A	19791009	JP	1979-25004		19790303	<
	JP 62005155	В	19870203					
	GB 2017694	A	19791010	GB	1979-7651		19790305	<
	GB 2017684	В	19820818					
RIOR	ITY APPLN. INFO.:				1978-20841	A		
				IT	1979-48004	A	19790214	
THER	SOURCE(S):	MARPAT	94:192375					

10/513699

10/513699

JP 55162774

A 19801218

JP 1979-71434

19790006 <-PRIORITY APPLN. INFO.:

CASREACT 95;25127

OTHER SOURCE(6):

CASREACT 95;25127

OT Port diagram(8). see printed CA Issue.

AS Porty-seven carbostyrils I [R = H, Q [R6 = H, OH, alkyl, etc., R4 = H, alkyl, R5 = cycloalkyl, alkanoyl, etc., p, m = 0.6; r = 2-3); R3 = halo; n = 0.2; R1 = H, alkyl, alkenyl, etc., R2 = H, alkyl, Ph, Q} were prepared and had antihistaminic and central nervous system depreasant activities when tested with guines pig ileum and in mice, resp. Thus, refluxing 4-methyl-7-(2,-peopxyropoxy) carbostyril with 4-phenylpiperazine in BtON 3 h and treating with HCl/EtOH gave 63% 4-methyl-7-[2-hydroxy-(4-phenylpiperazinyl)] propoxy) carbostyril-HCl.

T7 76808-65-6P

RL: SPN (Synthetic preparation), PREP (Preparation)
(preparation of)
RN 76808-65-6 CAPLUS

CN 2(III)-Quinolinone. 7-[3-(4-(4-chlorophenyl)-3-methyl-1-piperazinyl)] propoxyl-3,4-dihydro-, dihydrochloride (9CI) (CA INDEX NAME)

### ●2 HC1

L9 ANSMER 82 OF 134 CAPLUS COPYRIGHT 2007 ACS on 6TN
ACCESSION NUMBER: 1981:425121 CAPLUS
DOCUMENT NUMBER: 95:25121
Antinistemminic carbostyril derivatives
OUNCE: Otsuka Pharmaceutical Co., Ltd., Japan
SOURCE: CODEN: JKXXAF

DOCUMENT TYPE.

Patent Japanese

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 55124766	A	19800926	JP 1979-32486	19790320 <
JP 63031445	В	19880623		

PRIORITY APPLM. INFO.:
OTHER SOURCE(S):
GI For diagram(S), se
AB Carbostyrils I FP

RITY APPLN. INFO.:

R SOURCE(6):

CASREACT 95:25121

For diagram(8), see printed CA Issue.
Carbostyrils I [R = H, O (R3 = H, OH, alkyl, etc., R4 = H, alkyl, R5 = cycloalkyl, alkanoyl, etc., l.m = 0-6, r = 2, 31, X = halo, n = 0-2, R1 = H, alkyl, etc., R2 = H, alkyl, Ph, O[ (131 compds.) were prepared and were tested as antihistaminics in guinea pig. lleum. Thus, reaction of 4.4 g 5-(2.3-egoxyrpopxyy)-3,4-dihydrocarbostyril with 3.4 g 1-phenylpiperazine in McOH 3 h at 50-60\* gave, after treating with HCl, 6.5 g 5-[2-hydroxy-3-(4-phenylpiperazinyl) propoxyl-3,4-dihydrocarbostyril-HCl, 76808-65-6P

<12/04/2007>

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GI

Piperazinoalkyldioxolones I (R = optionally substituted Ph, naphthyl, R1 = optionally substituted alkyl, Ph, pyridyl, pyrimidinyl, n = 1-3) were prepared Thus II was treated with COC12 to give I (R = 4-PC6H4, R1 = 2-PMC6CH4, n = 2) which had an antiulore IED50 of 30 mg/kg orally in rats. I also have anticholesteremic activity. 71921-05-2 P 71923-19-2P RL: SPN (Synthetic preparation), PREP (Preparation) (preparation of 71923-05-2 CAPLUS 1.3-Dioxol-2-one, 4-[2-[4-(4-chlorophenyl)-3-methyl-1-piperazinyl]ethyl)-5-(4-fluorophenyl)-, dihydrochloride (9CI) (CA INDEX NAME)

<12/04/2007>

71923-39-2 CAPLUS
1,3-Dioxol-2-one, 4-{2-{4-(4-chlorophenyl)-3-methyl-1-piperazinyl}ethyl]-5(4-fluorophenyl)- (9CI) (CA INDEX NAME)

L9 ANSMER 84 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1990:586412 CAPLUS
TITLE: 93:186412 CAPLUS
TITLE: Carboutyril compounds
NAKAgawa, Kazuyuki; Tominaga, Michiaki; Tone, Hitoshi
Otsuka Pharmaceutical Co., Ltd., Japan
U.S., 15 pp. Cont.-in-part of U.S. Ser. No. 778,537,
abandoned.
CODEN: USXXAM
PALENT

Patent English DOCUMENT TYPE:

LANGUAGE: PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4210753	A	19800701	US 1978-965470	19781130 <
JP 52113979	A	19770924	JP 1976-28957	19760317 <
JP 59019541	В	19840507		
JP 52136177	A	19771114	JP 1976-52498	19760507 <
JP 60009501	В	19850311		
ZA 7701461	A	19780830	ZA 1977-1461	19770310 <
BE 852556	A1	19770718	BE 1977-175856	19770317 <
PRIORITY APPLN. INFO.:			JP 1976-28957 /	19760317
			JP 1976-52498 A	19760507
			US 1977-778537	12 19770317

OCH2CH (OH) CH2NR2R3

8-Glycidyloxycarbostyrils reacted with amines to give 8-(3-amino-2-hydroxypropoxy)carbostyrils I and II (R = H, R1 = H, phenylalkyl, diphenylalkyl, alkoxyalkyl, hydroxyalkyl, alkanoyl, alkynyl, R2 = H and R3 = pyrrolidinoalkyl, piperazinoalkyl, morpholinoalkyl, or NR2R3 form a piperidino, morpholino, pyrrolidino, or piperazino groupl, which showed hadrenergic blocking activity. A mixture of 8-propargyloxy-5-

<12/04/2007>

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2(1H)-Quinolinone, 5-{3-{4-(4-chlorophenyl)-3-methyl-1-piperazinyl)-2-hydroxypropoxyl-8-hydroxy-, monohydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

65034-66-4 CAPLUS 2(1H)-Quinolinone, 5-[3-[4-(4-chloropheny])-3-methyl-1-piperazinyl]-2-hydroxypropoxyl-3,4-dinydro-8-hydroxy-, monohydrochloride (9CI) (CA INDEX NAME)

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glycidyloxy-3,'4-dihydrocarbostyril, pyrrolidine, and MeOH was kept 12 h at 10-15\* to give II (R = H, R1 = propargyl, NR2R3 = pyrrolidino).
65008-48-2P
RL: SPN (SPNthetic preparation), PREP (Preparation)
(preparation and fh-adrenergic blocking activity of).
65008-48-2 CAPLUS
2(1H)-Quinolinone, 5-[3-[4-(4-chlorophenyl)-3-mechyl-1-piperatinyl]-2-hydroxypropoxyl-3,4-dihydro-8-(phenylmethoxy)-, monohydrochloride (9CI)
(CA INDEX NAME)

PAGE 2-A

PAGE 1-A

. 55008-50-6P 65034-66-4P RL: SPN (Synthetic preparation), PREP (Preparation) (preparation of) 65008-50-6 CAPLUS

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PAGE 2-A

55117-80-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(ring cleavage of (glycidyloxylcarbostyrila by)
55117-80-1
Piperazine, 1-(4-chlorophenyl)-2-methyl- (9CI) (CA INDEX NAME)

<12/04/2007>

Brich Leese

L9 ANSWER 85 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1980:542844 CAPLUS
DOCUMENT NUMBER: 93:142844
AUTHOR(S): Smith, R. G., fucas, R. A., Wasley, J. M. F.
CORPORATE SOURCE: Pharm. Div., Ciba-Geigy Corp., Summit, NJ, 07801, USA
SOURCE: JOURNAI OF MEDICAL COMPANY (1980), 23(8), 952-5
CODEN: JOURNAI JOURNAI (15N): 0022-2623
DOCUMENT TYPE: JOURNAI (15N): 0022-2623
DANGUAGE: English
OTHER SOURCE(S): CASREACT 93:142844

DOCUMENT TYPE: LANGUAGE: OTHER SOURCE(S): GI

The synthesis and biol. evaluation of 5 title compds. I (R = Me, Ph, CH2Ph, and 2- or 4-ClC6H4-) and 2 dihydro derive. for anxiolytic and antidepressant activities are described. I, R = C6H6Cl-2 [74162-29-1] had significant levels of anxiolytic activity but low antidepressant activity. 74162-26-8P ΑB

74162-26-8P
RL: RCT (Reactant), SPN (Synthetic preparation), PREP (Preparation), RACT (Reactant or reagent)
(preparation and acylation of)
74162-26-8 CAPLUS
2-Piperatinemethanamine, 1-(4-chlorophenyl)-4-methyl- (9CI) (CA INDEX NAME)

<12/04/2007>

Erich Leese

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74162-22-4 CAPLUS
Benzamide, 4-chloro-N-[[1-(4-chlorophenyl)-4-methyl-2-piperazinyl]methyl][901] [CA IMDEX NAME]

74162-23-5 CAPLUS
Benzeneacetanide, N-[[1-(4-chlorophenyl)-4-methyl-2-piperazinyl]methyl](9C1) (CA INDEX NAME)

74162-24-6 CAPLUS
Acctamide. N-[(1-(4-chlorophenyl)-4-methyl-2-piperazinyl)methyl]- (9CI)
(CA INDEX NAME)

Erich Leese

CH2 - NHAC

10/513699

IT

74162-20-2P 74162-21-3P 74162-22-4P 74162-23-5P 74162-24-6P REL: RCT (Reactant), BPN (Synthetic preparation), PREP (Preparation), RACT (Reactant or reagent) (preparation and cyclization of) 74162-20-2 CAPLUS Benzamide, N-[[1-(4-chlorophenyl)-4-methyl-2-piperazinyl]methyl]- (9CI) (CA INDEX NAME)

74162-21-3 CAPLUS
Benzamide, 2-chloro-N-[[1-(4-chlorophenyl)-4-methyl-2-piperazinyl]methyl](SC1) (CA IMDEX NAME)

<12/04/2007>

Brich Leese

L9 ANSMER 86 OP 134 CAPLUS COPYRIGHT 2007 ACS On STN
ACCESSION NUMBER:
1000/PMENT NUMBER:
1717LS:
1717

DOCUMENT TYPE: LANGUAGE: FAMILY ACC, NUM, COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2912105	A1	19791011	DE 1979-2912105	19790327 <-
DE 2912105	C2	19850829		
DE 2912105	C3	19900215		
JP 54130587	A	19791009	JP 1978-37783	19780330 <-
JP 62023750	В	19870525		
CA 1117110	A1	19820126	CA 1979-324227	19790327 <~
DE 2953723	C2	19860710	DE 1979-2953723	19790327 <-
DE 2953723	C3	19890112		
PI 7901034	A	19791001	PI 1979-1034	19790328 <-
PI 70704	В	19860626		
PI 70704	С	19861006		
AU 7945480	A	19791004	AU 1979-45480	19790328 <-
AU 515531	B2	19810409		
US 4734416	A	19880329	US 1979-24602	19790328 <-
BE 875174	A1	19791001	BE 1979-194281	. 19790329 <-
SE 7902794	A	19791001	SE 1979-2794	19790329 <-
SE 434945	В	19840827	•	
SE 434945	. с	19841220		
NO 7901049	A	19791002	NO 1979-1049	19790329 <-
NO 151321	В	19841210		
NO 151321	c	19850320		
DK 7901286	A	19791026	DK 1979-1286	19790329 <-
DK 158225	В	19900416		
DK 158225	С	19900917		
FR 2421174	A1	19791026	FR 1979-7863	19790329 <-
FR 2421174	91	19821119		
CH 641455	A5	19840229	CH 1979-2953	19790329 <-
AT 7902351	A	19840415	AT 1979-2351	19790329 <-
AT 376432	3	19841126		
SU 1140687	A3	19850215	SU 1979-2745704	19790329 <-
NL 7902514	A	19791002	NL 1979-2514	19790330 <-
NL 183189	В	19880316		
NL 183189	c	19880816		
GB 2017701	A	19791010	GB 1979-11155	19790330 <-
GB 2017701	В.	19830316		
ZA 7901516	A	19800430	ZA 1979-1516	19790330 <-
ES 479134	A1	19800616	ES 1979-479134	19790330 <-
ES 486990	A1	19801001	ES 1979-486990	19791217 <-
ES 486991	A1	19801001	ES 1979-486991	19791217 <-
ES 486992	A1	19801001	ES 1979-486992	19791217 <-
SU 1232144	A3	19860515	SU 1981-3328599	19810908 <-
CH 641350	A5	19840229	CH 1982-1900	19820326 <-

AT 8303915	A	19840415	AT 1983-3915		19831107	<
AT 376433	В	19841126				
AT 8303916	A	19840415	AT 1983-3916		19831107	<
AT 376434	В	19841126				
AT 8303917	A	19840415	AT 1983-3917		19831107	<
AT 376435	В	19841126				
JP 62149664	A	19870703	JP 1986-295668		19861210	<
JP 63005387	В	19880203				
US 4824840	A	19890425	US 1987-25193		19870312	<
PRIORITY APPLN. INFO.:			JP 1978-37783	A	19780330	
			US 1979-24602	A3	19790328	
			AT 1979-2351	A	19790329	
			CU 1070 2052		10700770	

OTHER SOURCE(S):

CASREACT 92:76316

СН2СН2СН2О

Apparatus 160 piperazinoalkoxy- (especially-propoxy)-carbostyrils and/or their 3,4-dihydro derivs, were prepared and tested as antihistaminics, anesthesic-and sedative-enhancers, and analgesics; reference compds, were, e.g., haloperidol, diazepam, or pentabarbitol. Any or all of the piperazine, alkoxy, or carbostyril moieties could be substituted. Thus, the compds, were prepared by treatment of the appropriate hydroxycarbostyril with, a dihalo compound (e.g., BrCR1)3Cl) or an epoxide, then cyclized via conversion into a bie inhaloethylamine or treated with a piperazine. Compds, prepared included I-IV. 55117-80-1
RL: RCT (Reactant), RACT (Reactant or reagent) (reaction of, with carbostyril derivs.) 55117-80-1 CAPLUS
Plperazine, 1-(4-chlorophenyl)-2-methyl- (9Cl) (CA INDEX NAME)

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Dioxolones I (R = optionally substituted aryl; NR1R2 = secondary amino; X= 0, 8; X1 = C1-3 alkylenel were prepared Thus, II was treated with COC12 to give I [R = 4-FC6H4, NR1R2 = 4-12-methoxyphenyl)piperazino, X = 0, X1 = CH12CH2) which had an antiulcer ED30 of 30 mg/kg orally in rats. I also had anticholesteremic activity. 71923-05-2 PRI SPN (Synthetic preparation); PREP (Preparation) (preparation and anticholesteremic and anti-ulcer activity of) 71923-05-2 CAPLUS 1,3-bioxol-2-one, 4-[2-[4-(4-chlorophenyl)-3-methyl-1-piperazinyl]ethyl]-5-(4-fluorophenyl)-, dihydrochloride (9CI) (CA INDEX NAME) AB IТ

CH2

● 2 HCl

71923-39-2P
RL: SPN (Synthetic preparation), PREP (Preparation)
(preparation of)
71921-39-2 CAPLUS
1,3-Dioxol-2-one, 4-[2-[4-(4-chlorophenyl)-3-methyl-1-piperazinyl]ethyl]-5(4-fluorophenyl)- (9CI) (CA INDEX NAME)

10/513699

ANSWER 87 OF 134 CAPLUS COPYRIGHT 2007 AC8 on STN
SSION NUMBER: 1979:593189 CAPLUS
E: 4-Atyl-5-aminoalkyl-1,3-dioxol-2-ones and derivatives
WT ASSIGNEE(S): 1stituto Luso Farmaco d'Italia 8.r.l., Italy

ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:
PATENT ASSIGNEE(S):
SOURCE:

Belg., 17 pp. CODEN: BEXXAL Patent Dutch 2

DOCUMENT TYPE: LANGUAGE:

PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE		PLICATION NO.		DATE	
					-		
BE 874561	A2	19790702	BE	1979-57638		19790302	٠
AU 7944404	A	19790906	AU	1979-44404		19790220	<
AU 518565	B2	19811008		•			
CH 639970 ·	A5	19831215	CH	1979-1825		19790223	<
FR 2418796	A1	19790928	FR	1979-4928		19790227	<
PR 2418796	B1	19810724					
ZA 7900922	A	19800227	ZA	1979-922		19790227	
CA 1158242	A1	19831206	CA	1979-322408		19790227	٠
NL 7901583	A	19790905	NL	1979-1583		19790228	
NL 177404	B	19850416					•
NL 177404	c	19850916					
DE 2908148	A1	19790906	DE	1979-2908148		19790302	<
DE 2908148	C2	19860807					
ES 478696	A1	19800816	RS	1979-478696		19790302	<
JP 54130569	A	19791009	JP	1979-25004		19790303	<
JP 62005155	В	19870203					
GB 2017684	A	19791010	GB	1979-7651		19790305	<
GB 2017684	B	19820818					
RIORITY APPLN. INFO.:			17	1978-20841	Α	19780303	
			IT	1979-48004	A	19790214	
31							

<12/04/2007>

Erich Leese

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CAPLUS COPYRIGHT 2007 ACS on STN
1979:137696 CAPLUS
90:137696 Carbostyrils
Tominaga, Michiaki; Tone, Hitoshi; Nakagawa, Kazuyuki
Otsuka Pharmaceutical Co., Ltd., Japan
Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: AKXAF
PATENT
Japanese
1

INVENTOR (S)

PATENT ASSIGNEE(S) : SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE JP 53108989 JP 59048830 PRIORITY APPLN, INPO.: 19780922 JP 1977-24042 19770304 <--JP 1977-24042 A 19770304

Ten carbostyrils I.HCl (R = H, PhCH2; Rl = H, p-MeO or Cl, m-Cl; R2 = H, Me), having β-adrenaline inhibiting activity (no data), were prepared by reaction of I.HCl (R = PhCH2) over 10x Pd-C. Thus, 2.0 g II (R = PhCH2) over 10x Pd-C. Thus, 2.0 g II (R = PhCH2) 3,4-dihydrol and 2.0 g II (RI = p-MeO, R2 = H) were stirred in MeOH for 4 hat 40-So to give 1.2 g I.HCl (R = PhCH2, RI = p-MeO, R2 = H).

3,4-dihydrol.
6500a-40a-560a-50-69 65034-66-49 RL EPH (Rynchetic preparation) PREP (Preparation)
6500a-40a-C CAPLUS 2(IH)-Ouinolinone, 5-(3-(4-(4-chlorophenyl)-3-methyl-1-piperazinyl)-2-hydroxypropoxyl-3,4-dihydro-8-(phenylmethoxy)-, monohydrochloride (9CI) (CA INDEX NAME)

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PAGE 1-A

65008-50-6 CAPLUS
2(1H)-Quinolinone, 5-[3-[4-(4-chlorophenyl)-3-methyl-1-piperazinyl]-2-hydroxypropoxyl-8-hydroxy-, monohydrochloride (9C1) (CA INDEX NAME)

Erich Leese

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● HC1

L9 ANSMER 89 OF 114 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
33-Aminoacrylophenones and some related compounds: a new class of anci-inflammatory agents
GUPLS, R. C., Practap, Ram, Chatterjee, S. K.; Srimal,
R. C.; Anand, Nitya
Cent, Drug Res. Inst., Lucknow, India
Indian Journal of Chemistry, Section B: Organic
Chemistry Including Medicinal Chemistry (1977), 158(7), 641-4
CODEN: IJSBDB; ISSN: 0376-4699
JOURNAIL
LANGUAGE:
English

<12/04/2007>

65034-66-4 CAPLUS
2(1H1-Quinolinone, 5-[3-[4-(4-chlorophenyl)-3-methyl-1-piperazinyl]-2hydroxypropoxyl-3,4-dihydro-8-hydroxy-, monohydrochloride (9CI) (CA INDEX NAME)

● HC1

<12/04/2007> Erich Leese

10/513699 OTHER SOURCE(S): CASREACT 88:37465

55117-80-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with propiophenone)
55117-80-1 CAPLUS
Piperazine, 1-(4-chlorophenyl)-2-methyl- (9CI) (CA INDEX NAME)

L9 ANSHER 90 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 1978:22663 CAPLUS B9:22663

<12/04/2007> Erich Leese

### 10/513699

TITLE: INVENTOR(S): PATENT ASSIGNEE(S): SOURCE:

Carbostyril derivatives
Tominaga, Michiaki, Tone, Hitochi, Nakagawa, Kazuyuki
Otsuka Pharmaceutical Co., Ltd., Japan
Ger. Offen., 92 pp.
CODEN: GWXXEX
Patent
5

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION

	KIND	DATE		
DE 2711719	A1	19770922	DE 1977-2711719	19770317 <
DE 2711719		19850214		
JP 52113979		19770924	JP 1976-28957	19760317 <
JP 59019541		19840507		
JP 52136177		19771114	JP 1976-52498	19760507 <
JP 60009501		19850311		
ZA 7701461	A	19780830	ZA 1977-1461	19770310 <
CH 619453	AS	19800930	CH 1977-3087	19770311 <
FI 7700827	A	19770918	FI 1977-827	19770315 <
FI 63224	В	19830131		
FI 63224	c	19830510		
DK 7701156	A	19770918	DK 1977-1156	19770316 <
DK 154970	В	19890116		
DK 154970	c	19890612		
SE 7703000	A	19770918	SE 1977-3000	19770316 <
SE 443140	В	19860217		
BE 443140	c	19860529		
NO 7700940 ·	A	19770920	NO 1977-940	19770316 <
NO 149388		19840102		
NO 149388	c	19840411		
AU 7723299	A	19780928	AU 1977-23299	19770316 <
AU 513950	B2	19810115		
BE 852556		19770718	BE 1977-175856	19770317 <
NL 7702896	A	19770920	NL 1977-2896	19770317 <
NL 179816		19860616		
NL 179816	c	19861117		
FR 2344538	A1 .	19771014	FR 1977-8041	19770317 <
FR 2344538	B1	19800718		
CA 1081232	A1	19800708	CA 1977-274453	19770317 <
AT 7701815	A	19810115	AT 1977-1815	19770317 <
AT 363474	B	19810810		
PRIORITY APPLN. INFO.:				A 19760317
			JP 1976-52498	A 19760507
	MARPAT	88:22663		
G1				

OCH2CH (OH) CH2NR1R2

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65008-50-6 CAPLUS
2(1H)-Ouinolinone, 5-[3-[4-(4-chlorophenyl)-3-methyl-1-piperazinyl]-2-hydroxypropoxyl-8-hydroxy-, monohydrochloride (SCI) (CA INDEX NAME)

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65034-66-4 CAPLUS<sub>e</sub>
2(1H)-Ouinolinone, 5-[3-[4-(4-chlorophenyl)-3-methyl-1-piperazinyl]-2hydroxypropoxyl-3,4-dihydro-8-hydroxy-, monohydrochloride (9CI) (CA INDEX
NAME)

PAGE 1-A

PAGE 2-A

PAGE 2-A

65023-17-8
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(Uses) (sympatholytic activity of)
(8502)-17-8 CARPIN (SYMPATHOLOGY)
(2(HH)-Quinolinone, 3,4-dlhydro-5-[2-hydroxy-3-(3-methyl-4-phenyl-1-piperazinyl)propoxy)-8-(phenylmethoxy)-, monohydrochloride (9CI) (CA INDEX NAME)

Ph- CH2-

L9 ANSMER 91 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 1976:592771 CAPLUS
DOCUMENT NUMBER: 8:192771
TITLE: 8-Aminotheophylline derivatives
UNVENTOR(S): Quelet. Jean R.
Laboratoire le Brun S. A., Fr.
SOURCE: Ger. Offen. 15 pp. 85:192771
8-Aminotheophylline derivatives
Ouelet. Jean R.
Laboratoire le Brun S. A., Fr.
Ger. Offen. 15 pp.
CODEN: GWXXBX
Patent
Oerman

DOCUMENT TYPE:

<12/04/2007>

Erich Leese

10/513699

60987-62-4 CAPLUS
1H-Imidazo[2,1-f]purine-2,4(3H,6H)-dione, 8-[2-[4-(4-chlorophenyl)-3-methyl-1-piperazinyl]ethyl]-7,8-dihydro-1,3-dimethyl- (9CI) (CA INDEX NAME)

60987-63-5 CAPLUS |H-Imidazo[2]-f[purine-2.4(3H,6H)-dione, 8-{2-{4-(3-chlorophenyl)-3-ethyl-|rpiperazinyl]othyl]-7,8-dihydro-1,3-dimethyl- (9CT) (CA INDEX NAME)

Erich Leese

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PAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2609397 .	A1	19760923	DE 1976-2609397	19760306 <
FR 2303551	A1	19761008	FR 1975-7675	19750312 <
ZA 7601234	A	19770223	ZA 1976-1234	19760302 <
GB 1536492	A	19781220	GB 1976-8487	19760303 <
JP 51113898	A	19761007	JP 1976-24723	19760309 <
ES 445944	A1	19770516	ES 1976-445944	19760310 <
BE 839419	A1	19760913	BE 1976-165037	19760311 <
CH 597231	A5	19780331	CH 1976-3060	19760311 <
AU 7611975	A	19770915	AU 1976-11975	19760312 <
AU 501358	B2	19790621		

AU 7611975
AU 7011978
B2 19790621
FRORRITY APPLN. INFO.:

FOR diagram(s), see printed CA Issue.

Port diagram(s), see printed CA Issue.

BP urinediones [Ir R = H, Me, Et, 3-MeOC6814; Rln = e.g., H, 3-cl, 3-Br, 3-F, 3-4-cl2, 3.4-Me2; n = 2, 3, 4; m = 2, 3, 6; (CR2)m = CHZCHMel), with anticussive, antihistaminic, analgesic, inflammation-inhibiting, tranquilizing, and sedative activities, are prepared by reaction of 9-(chloroalkyl)-tetrahydropyrimidopurinediones with phenylpiperaxines. The pyrimidopurinediones are obtained by condensation of 8-chloro-7-(chloroalkyl)-tetrahydropyrimidopurinediones with phenylpiperaxines. The pyrimidopurinediology with phenylpiperaxines. The chloroalkyl)-tetrahydropyrimidopurinediones with phenylpiperaxines. The pirimidopurinediology with phenylpiperaxines. The chloroalkyl)-tetrahydropyrimidopurinediones with phenylpiperaxines. The chloroalkyl)-tetrahydropyrimidopurinediones with phenylpiperaxines. The chloroalkyl)-tetrahydropyrimidopurinediones with phenylpiperaxines. The Single Single

<12/04/2007>

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L9 ANSWER 92 OF 114 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 1976:17426 CAPLUS
DOCUMENT NUMBER: 84:17426
TITLE: Aminoalkylencindolines
INVENTOR(S): Allen, George R., Jr.; Littell,
American Cyanamid Co., USA
Con., 14 pp.
CODEN: CAXXA4

S4:17426
Aminoalkyleneindolines
Allen, George R., Jr., Littell, Ruddy
American Cyanamid Co., USA
Can., 14 pp.
CODEN: CAXXA4
Patent
English 1

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

$$\begin{array}{c|c} \bullet & & \\ \bullet & & \\ \bullet & & \\ \end{array}$$

●3 HC1

40119-10-6
RL: RCT (Reactant), RACT (Reactant or reagent)
(reduction of)
40119-10-6 CAPIUS
5H-1,3-010xolo(4,5-r]indole, 7-[2-[3-methyl-4-(4-methylphenyl)-1piperarinyl]ethyl]- (9CI) (CA INDEX NAME)

L9 ANSMER 93 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1975.443207 CAPLUS
DOCUMENT NUMBER: 83.43207
TITLE: 2-(Piperazinylalkyl)isoquinolinediones
INVENTOR(S): Kutter: Eberhard, Austel, Volkhard; Eberlien,
Wolfgang, Heider, Joachia
Volkfer: October (Fen. 23 pp.
CODEN: GMCXEX
DOCUMENT TYPE: Patent
LANGUAGE: Patent
LANGUAGE: Patent
PANHLY ACC. NUM. COUNT: 2

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2345422	A1	19750320	DE 1973-2345422	19730908 <
DE 2345422	C2	19831222		
AT 7406514	A	19751015	AT 1974-6514	19740808 <
AT 330777	В	19760726		
FI 7402465	A	19750309	FI 1974-2465	19740821 <
FI 52219	В	19770331		
ES 429473	A1	19760901	ES 1974-429473	19740823 <
US 3948898	A	19760406	US 1974-503072	19740904 <
SU 528035	A3	19760905	SU 1974-2057995	19740904 <
AU 7473023	A	19760311	AU 1974-73023	19740905 <
BE 819651	A1	19750306	BE 1974-148302	19740906 <
SE 7411312	A	19750310	SE 1974-11312	19740906 <
SE 424863	В	19820816		

<12/04/2007>

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2946-76-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with isoquinolinediones)
2946-76-1 CAPLUS
Piperazine, 2-methyl-1-phenyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

L9 ANSWER 94 OF 134
ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:
INVPX-

CAPLUS COPYRIGHT 2007 ACS on STN
1975:171026 CAPLUS
22:171026
1,3-Dialkyl-4-aminouracils
Hartleben, York, Goering, Joachim, Tauscher, Manfred,
Rohte, Oskar, Brenner, Guenter, Firma Johann A.
Wuelfing
Ger, Offen., 25 pp.
CCODEN: GWXXEX
PALENT
GCTMAN
1 INVENTOR (S):

DOCUMENT TYPE: LANGUAGE:

PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

DATE PATENT NO. APPLICATION NO. KIND DATE DE 2329399
AT 7404300
AT 332425
JP 50052077
SE 7407471
NL 7407611
BE 816055
PR 2232320
HU 168153
DD 119233 19750102 19741209 19760115 19760927 19750509 19741209 19741210 19740930 19750103 DE 1973-2329399 FI 1974-1579 AT 1974-4300 19730608 <--19740523 <--19740524 <--A1 A B A A A1 B A1 B A5 19740601 <--19740606 <--19740606 <--19740607 <--19740607 <--JP 1974-62447
SE 1974-7471
NL 1974-7611
BE 1974-145190
FR 1974-19693
HU 1974-WU16
DD 1974-179053
DE 1973-2329399 19760228 19760412 DD 119233 A5 19760412
PRIORITY APPLM. INFO.:
GI For diagram(s), see printed CA Issue. 19740610 19730608

10/513699

SE 424863 NL 7411843 NL 176363 NL 176363 19821125 19750311 19841101 NL 1974-11843 19740906 <--19850401 NO 7403220 NO 7403220 NO 140978 PR 2242979 DK. 7404727 JP 50050381 JP 59006868 DD 115122 HU 167869 EA 7405688 GB 1446791 CH 605779 CH 605778 CC 185660 PL 91712 ES 433959 ES 433958 NO 7403220 19750311 19790910 NO 1974-3220 19740906 <--19790910 19750404 19750505 19750506 19840215 19750912 19751225 FR 1974-30387 DK 1974-4727 JP 1974-102862 19740906 <--19740906 <--19740906 <--19740906 <-19740906 <-19740906 <-19740906 <-19740906 <-19740906 <-19740906 <-19740906 <-19740906 <-19740906 <-19750120 <-19750120 <-19750120 <-19750120 <-19750620 <-19750620 <-19750620 <--DD 1974-180966 HU 1974-T0380 ZA 1974-5688 GB 1974-19083 CH 1974-19083 CN 1977-16014 RO 1974-79912 CS 1974-6150 PL 1974-173958 ES 1975-433958 ES 1975-433958 ES 1975-433958 ES 1975-433958 DD 1974-180966 19760818 19760818 19781013 19781013 19781015 19781031 19770331 19761116 19761116 19761205 19770130 AT 7505606 19760515 AT 1975-5606 19750721 <--AT 7505606 AT 334374 AT 7505607 AT 334375 US 4021558 PRIORITY APPLN. INFO.: 19760110 19760515 AT 1975-5607 19750721 <--US 1976-651568 DE 1973-2345422 DE 1973-2345423 AT 1974-6514 US 1974-503072 19760110 19770503 19760122 <--A 19730908
A 19730908
A 19740808
A 19740904

AT 1974-512 A 19740908 US 1974-503072 A 19740908 US 1974-503072 A 19740908 US 1974-503072 A 19740904 Twenty-five isoquinolinediones I (R = Ph, substituted Ph, or 2-pyridyl; Rl = N or Me; R2 = H, F, Cl, or MeO; n = 2 or 3), useful as antihypertensives or sedatives or in tachycardia treatment (no data), were prepared by reaction of the isochromandiones (II, X = O) or isoquinolinediones II (X = NN) with (1-piperaxinyl)alkylamines or (1-piperaxinylalkyl chlorides, resp., or by reaction of the isoquinolinediones (II, X = N(CH2)nCl] with the piperaxines.
55974-45-3P
RL: SPN (Synthetic preparation), PREP (Preparation) (preparation of antihypertensive and sedative)
55974-45-3 CAPILUS
1,3 (2H, 4H)-Isoquinolinedione, 4,4-dimethyl-2-{2-(3-methyl-4-phenyl-1-piperazinyl)ethyl]-, dihydrochloride (9CI) (CA INDEX NAME)

<12/04/2007>

Erich Leese

About 40 uracis I and II [R - Mc, Me2CH, or Bu, R] - CH2CH2OII,
CH2CH2802C6H4Me-4, or (CH2)3OH, R2 - Mc, Pr, CH2CHMCOH, CH2Ph, (CH2)3NH2,
CO2EL, C6H4COMe-4 or -2, 2-pyridyl, CiPhC6H4C1-4, etc., R3 - H or Mc] were
prepared by reaction of 4-chlorouracis with amines. I and II had
anticholesteremic, choleretic, and diuretic activity when tested orally in
the rat. LD50 values were obtained in the mouse. Thus.
1,3-dibutyl-4-chlorouracil and H2NCH2CH2OH were refluxed in EtOH to give
974 I (R = Bu, R] = CH2CH2OH).
35347-12-7 55117-80-1
RL: RCT (Reactant); RACT (Reactant or resgent)
(reaction of, with chlorouracils)
35347-12-7 CAPLUS
Piperazine, 1-(4-methoxyphenyl)-2-methyl- (9CI) (CA INDEX NAME)

55117-80-1 CAPLUS Piperazine, 1-(4-chlorophenyl)-2-methyl- (9CI) (CA INDEX NAME)

L9 ANSWER 95 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCRESION NUMBER: 1975:170836 CAPLUS
DOCUMENT NUMBER: 22:170836
TITLE: Synthesis of new piperazine derivatives. 1-Aikyl(or arcyl)-4-(N-aikyl(or arcyl)) piperazinyl)-1-butene-3-ones
AUTHOR(S): Baboulene Michel, Sturtz, Georges
Lab. Chim. Hetero-Org., U.E.R. Sci., Brest, Pr.
Comptes Rendus des Seances de l'Academie des Sciences,
Serie C: Sciences Chimiques (1975), 280(3),
149-51

<12/04/2007>

Erich Leese

CODEN: CHDCAQ; ISSN: 0567-6541

CODEN: CHDCAQ; ISSN: 0567-6541

JOURNAL
LANGUAGE: Prench
OTHER SOURCE(S): CASKEACT 82:170836

G1 Por diagram(s), see printed CA Issue.
AB Piperazines I(R=Me, Ph, 4-PCGHe, 4-MeGC1H4, Ch2Ph, R1-CHMe2, Ph, 4-BrC6H4, 4-PCGH4, 4-MeGC1H4, Ch2Ph, R1-CHMe2, Ph, 4-BrC6H4, 4-PCGH4, 4-PCGH4,

L9 ANSMER 96 OP 114 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:
DOCUMENT NUMBER:
1974:552164 CAPLUS

81:152164
Possible anti-Parkinsonian compounds.
Of 3,5-dihalo acetyl salicyloylamines, piperazines, and phenothiazines
AUTHOR(S):
CORPORATE SOURCE:
SOURCE:
Journal of the Indian Chemical Society (1973)
1,50121, 800-1
CODEN: JICSAN: ISSN: 0019-4522
JOURNAL AUGUAGE:
OF For diagram(s), see printed CA Issue.
AB Dihaloacetylsalicylamides I (R = Cl, Br; R1 = R2 = Me, Et, Ph, CH2CH2OH; NRIRZ = morpholino, piperidino, pyrrolidino, phenothiazino.
N-arylpiperazino) were prepared by Acylating the dihalosalicylic acids, chlorinating, and treating with the amine.

IT \$4295-55-5P
RL: SPN (Synthetic preparation); PREP (Preparation)

54295-55-5P
RL: SPN (Synthetic preparation), PREP (Preparation)
(preparation of)
54295-55-5 CAPLUS.
Piperazine, 4-[2-(acetyloxy)-3,5-dibromobenzoyl]-2-methyl-1-phenyl(CA INDEX NAME)
(CA)

<12/04/2007>

Erich Leese

10/513699

CODEN: USXXAM

Patent English DOCUMENT TYPE:

PATENT NO. KIND DATE APPLICATION NO. DATE US 1971-171319 US 1971-171319 Α...

5H-1,3-Dioxolo(4,5-f)indole, 5-acetyl-6,7-dihydro-7-(2-[3-methyl-4-(4-methylphenyl)-1-piperazinyl)ethyl)- (9CI) (CA INDEX NAME)

5H-1,3-Dioxolo[4,5-f]indole, 6,7-dihydro-7-{2-{3-methyl-4-(4-methylphenyl)-1-piperazinyl]ethyl}-, trihydrochloride (9CI) (CA INDEX NAME)

2946-76-1
RI: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with acetyldihalosalicoyl chlorides)
2946-76-1 CAPLUS
Piperazine, 2-methyl-1-phenyl- (6C1, 7C1, 8C1, 9C1) (CA INDEX NAME)

L9 ANSWER 97 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 1974:141107 CAPLUS

DOCUMENT NUMBER: TITLE: 80:141107 Pharmacological analysis of the role of the nervous

AUTHOR(S): CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE:

MENT NUMBER: 80:141107

E: Pharmacological analysis of the role of the nervous system in inflammation

Trinus, P. P.

PORATE SOURCE: Kiev, USSR

Kiev, USSR

Kiev, USSR

COEDEN: PATOBEN; ISSN: 0430-0939

MENT TYPE: Journal

NUAGE: Russian

Seven compds. which affect the central nervous system and 17 compds, which affect the autonomic nervous system were tested for their antiinflammatory effects in rats with formalin induced inflammation. Compds. which inhibit the central nervous system were tested for their antiinflammatory effects in rats with formalin induced inflammation. Compds. which inhibit the central nervous system were about a chioral hydrate 1302-17-0), hexenal [50-05-9], aminarine [50-53-3], and resergine [50-55-5], were antiinflammatory, whereas central nervous system studiators were not. The ganglion stimulator, dimethylphenylphparatine [33905-46-5], had a short-acting antiinflammatory effect. whereas angliolytics did not. The cholinomimetic, carbachol [51-43-2], the anticholineaterases, eserine [51-43-4], octadine [60-02-6], the u-adrenolytics, dihydrocryotoxin [1132-41-0] and pinentolamine [50-60-2], and the monoamine oxidase inhibitors iprazide [54-92-2], malamide [4387-09-1], and transamine [3721-28-6] were also antiinflammatory.

L9 ANSWER 98 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1973:492287 CAPLUS
DOCUMENT NUMBER: 79:92227
TITLE: 1-Acyl-3-(2-(4-phenyl-1-piperazinyl)ethyllindolines
Allen, George Rodger, Jr., McEvoy, Francis J., De
Vries, Vern G., Moran, Daniel B., Littell, Ruddy
American Cyanamid Co.
SOURCE: U.S., 14 pp.

<12/04/2007> Erich Leese

10/513699

●3 HC1

35947-11-6 35947-12-7
RL: RCT (Reactant), RACT (Reactant or reagent)
[reaction of, with (bromoethyl)indolines)
35947-11-6 CAPIUS
Piperazine, 2-methyl-1-(4-methylphenyl)- (CA INDEX NAME)

35947-12-7 CAPLUS
Piperazine, 1-(4-methoxyphenyl)-2-methyl- (9CI) (CA INDEX NAMB)

CAPLUS COPYRIGHT 2007 ACS on STN 1973:417847 -CAPLUS 79:17847 Thermodynamics of the complexing of ailver by piperazine and some of its derivatives in water-ethanol solution

<12/04/2007>

Erich Leese

AUTHOR(S): CORPORATE SOURCE:

Enca, O., Houngbossa, K.; Berthon, G. Lab. Thermodyn. Chim. Electrochim., Univ. Poitiers, Poiliers, Fr. Thermochimica Acta (1973), 6(3), 309-17 CODEM: THACAS, 18SN: 0040-6031

SOURCE:

DOCUMENT TYPE: LANGUAGE:

JOURN: THACAS; ISSN: 0040-6031
JUAGE:

French
The stability consts. of the complexes of Ag. ion with piperazine and its 2-mcthyl-, 2-mcthyl-l-m-tolyl-, 2-mcthyl-l-p-tolyl-, and
1-(p-mcthoxyphenyl)-2-mcthyl- derivs. are obtained at 25° in water-EtON (52%, v/w) and KNO3 0.1 M ionic strength, by means of corresponding metal-complex electrodes. The enthalpies of formation are determined by direct calorimetry. The thermodn. functions AGn\*.
Alm\*, ASn\* are discussed in relation to the ability of each amine to coordinate, in terms of the nature and position of the entering group.
JS947-11-6 15947-12-7
RL: PROC (Process)

(complex formation of, with -/\*)
JS947-11-6 COMMENTARY AND AGN\*

IТ

RL: PROC (Process)
(complex formation of, with silver ion, stability of)
35947-11-6 CAPLUS
Piperazine, 2-methyl-1-(4-methylphenyl)- (CA INDEX NAME)

35947-12-7 CAPLUS Piperazine, 1-(4-methoxyphenyl)-2-methyl- (9CI) (CA INDEX NAME)

L9 ANSWER 100 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 1973:84255 CAPLUS DOCUMENT NUMBER: 78:84255

<12/04/2007>

Erich Leese

10/513699

PRIORITY APPLN. INFO.:

For diagram(s), see printed CA lasue.

Approx. 60 piperazinylethylindolines I (R = Ac. Bz, H, etc., Rl = Me, H, RZ = H, o., p.meO, o., m.meO, o., m.cl., etc., R3 = H, MeO, Br, O2N, Ac, etc., R4 = MeO), tranquilizers, were prepared by reaction of a piperazine with a 1-(2-bromoechyl)indoline. Dosages ol I for 50% reduction of motor

IT

with a 3-(2-bromoetnyl))nobline. Dosages of 1 for 50% reduction of motor activity in mice were given.
40118-64-79 40118-66-9P 40118-85-2P
40118-01-79 40118-20118-

40118-66-9 CAPLUS 5H-1,3-Dioxolo[4,5-f]indole,5-acetyl-6,7-dihydro-7-[2-[3-methyl-4-(4-methyl)henyl)-1-piperazinyl|ethyl]- (9CI) (CA INDEX NAME)

$$\begin{array}{c} \text{Ac} \\ \text{O} \\ \end{array}$$

40118-85-2 CAPLUS 5H-1,3-Dioxolo(4,5-f)indole. 6,7-dihydro-7-[2-[3-methyl-4-(4-methylphenyl)-1-piperasinyl)tethyll- (9CI) (CA INDEX NAME)

40119-01-5 CAPLUS 1H-Indole, 2,3-dihydro-5,6-dimethoxy-3-(2-[4-(4-methoxyphenyl)-3-methyl-1-piperazinyl|ethyll- (9CT) (CA INDEX NAME)

Erich Leese

10/513699

3-[2-(4-Phenyl-1-piperazinyl)ethyl]indolines Allen, George Rodger, Jr., McEvoy, Francis Joseph Devries, Vern Gordon, Moran, Daiel Bryan, Litell, Ruddy TITLE: INVENTOR(S):

Auddy
American Cyanamid Co.
Ger. Offen., 87 pp.
CODEN: GWXXBX
Patent
German
2

PATENT ASSIGNEE(S):

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2225765	Α	19721207		19720526 <
US 3751416	Ä	19730807	US 1971-147700	19710527 <
ZA 7202916	A	19730228	ZA 1972-2916	19720501 <
CA 1014154	Al	19770719	CA 1972-140989	19720501 <
GB 1382916	A	19750205	GB 1972-20674	19720503 <
GB 1382917	A	19750205	GB 1973-56237	19720503 <
AU 7241918	A	19731108	AU 1972-41918	19720504 <
CS 185203	B2	19780915	CS 1972-3454	19720519 <
CS 185244	B2	19780915	CS 1976-248	19720519 <
CS 185245	B2	19780915	CS 1976-251	19720519 <
PL 81987	B1	19751031	PL 1972-155596	19720525 <
PL 92627	B1	19770430	PL 1972-176212	19720525 <
PL 92635	B1	19770430	PL 1972-176213	19720525 <
PL 92634	B1	19770430	PL 1972-176214	19720525 <
BE 784012	A1	19721127	BE 1972-117944	19720526 <
NL 7207129	A	19721129	NL 1972-7129	19720526 <
FR 2139158	A1	19730105	FR 1972-18968	19720526 <
DD 100471	A5	19730920	DD 1972-163237	19720526 <
SU 489321	A3	19751025	SU 1972-1792254	19720526 <
SU 489322	A3	19751025	SU 1972-1960739	19720526 <
CH 579563	A5	19760915	CH 1972-7843	19720526 <
RO 60145	A1	19760915	RO 1972-71032	19720526 <
CH 582142	A5	19761130	CH 1976-7597	19720526 <
CH 582172	A5	19761130	CH 1976-7598	19720526 <
CH 583700	A5	19770114	CH 1976-7595	19720526 <
CH 583701	A5	19770114	CH 1976-7596	19720526 <
NO 136795	В	19770801	NO 1972-1869	19720526 <
SE 395455	Ð	19770815	SE 1972-6918	19720526 <
SE 397524	В	19771107	SE 1974-2374	19720526 <
SE 397525	В	19771107	SE 1974-2375	19720526 <
RO 63715	A1	19781015	RO 1972-80196	19720526 <
RO 63730	A1	19781115	RO 1972-80194	19720526 <
RD 64489	A1	19790515	RO 1972-80193	19720526 <
HU 166178	В	19750228	HU 1972-AB360	19720527 <
HU 167203	B	19750927	HU 1972-AE400	19720527 <
HU 168720	В	19760728	HU 1972-AE401	19720527 <
ES 409281	A1	19760316	ES 1972-409281	19721204 <
ES 409282	A1	19760316	ES 1972-409282	19721204 <
ES 409283	A1	19760316	ES 1972-409283	19721204 <
ES 409284	A1	19760316	ES 1972-409284	19721204 <
US 3900495	A	19750819	US 1973-350445	19730412 <
SU 575024	. A3	19770930	SU 1973-1953507	19730726 <
SU-488408	A3	19751015	SU 1973-1960738	19730913 <
SE 7600531	A	19760120	SE 1976-531	19760120 <
CA 1056B21	A2	19790619	CA 1977-276961	19770426 <

<12/04/2007>

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IT

40119-10-6
RL: RCT (Reactant), RACT (Reactant or reagent)
(reduction of)
40119-10-6 CAPLUS
SH-1,3-Dioxolo(4,5-f)indole, 7-[2-(3-methyl-4-(4-methylphenyl)-1niperaxinyl]ethyl]- (9C1) (CA INDEX NAME)

L9 ANSMER 101 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1972.405077 CAPLUS
TOCUMENT NUMBER: 77:5077
TITLE: 59ntheses of heterocyclic compounds. CDLX. Bensyne reaction of halogenobenzenes with N-alkylmorpholines (with N-alkylmorpholines). 4 Kametenin T. T. %13sawan, K. Hitragi, M.; Aoyama, T. Pharm. Inst., Tohoku Univ., Sendai, Japan Journal of Organic Chemistry (1972), 37(9), 1450-3 CODEN; JOCEAN: ISSN: 0022-3263

Journal of Organic Chemistry (1972), 37(9).

1450-3

DOCUMENT TYPE: JOURNAL JOSEAN, ISBN: 0022-3263

DOCUMENT TYPE: JOURNAL JOSEAN, ISBN: 0022-3263

AB The benzyne reaction of N-alkylmorpholines with bromobenzene in the presence of NaN12 gives mixts. of N-alkylanilines and N-alkyl-N-1-hydroxyethylanilines. Minor amts. of ylide rearrangement products were obtained with other tertiary amines.

IT 33905-48-59 33905-49-6P

RL: SPN (Synthetic preparation), PREP (Preparation)
(preparation of)

RN 33905-48-5 CAPLUS

CN Piperazine, 2,4-dimethyl-1-phenyl- (9CI) '(CA INDEX NAME)

<12/04/2007>

33905-49-6 CAPLUS
Piperazine, 2,4-dimethyl-1-phenyl-, monohydrochloride (9CI) (CA INDEX
NAME)

● HC1

L9 ANSWER 102 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION RUMBER: 1972:149138 CAPLUS
TITLE: 76:149138 Agents acting on the central nervous system. 14.
1-(p-alkanoylphenoxy)-3-(184-ary)piperazinyl)propan-2ols New class of antidepresants
AUTHOR(S): Rascogi, S. Nivas; Anand, Nitya, Prasad, C. R.
Div. Med. Chem., Cent. Drug Res. Inst., Lucknow, India
Journal of Medicinal Chemistry (1972),
15(3), 266-91
COBEN; JMCMAR; ISSN: 0022-2623

CODEN: JMCNAR: ISSN: 0022-2623

DOCUMENT TYPE: JOURNAI
LANGUAGE: English
OTHER SOURCE(S): CASREACT 76:149138

AB 1-(P-Alkanoylphenoxyl-3-(4-piperazinyl)-2-propanols (I).
1.3-bis(aryloxy)-2-propanols (II) and related compds. were prepared, e.g.,
by condensation of 1-aryloxy-2.3-epoxypropanes with amines and screened
pharmacol 1-(P-propionylphenoxyl-3-(4-phenylphperazinyl)-2-propanol
(III) [34675-77-9] counteracted reserpine-induced depression in cats and
potentiated amphetamine-induced stimulation in mice and rats at 5mm/Ky; at 106 mg/Kg. III counteracted amphetamine-induced hyperactivity
and toxicity in aggregated mice. Structural modifications of II gave
decreased antidepressant activity, thus III activity is specific and very
similar to that of amitriptyline [50-49-6] and imipramine [50-49-7].

II 36116-92-1
R: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pharmacology of)

<12/04/2007>

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Piperazine, 1-(4-methoxyphenyl)-2-methyl- (9CI) (CA INDEX NAME)

L9 ANSMER 104 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1972:72551 CAPLUS
DOCUMENT NUMBER: 5-(2-Aminoethyl)-12-3-piperazinediones and
3-(2-aminoethyl)-12-ansines
Lunsford, Carl D., Cale. Albert D., Jr.
A H. Robins Co., Inc.
GORO CIfen., 28 pp.
CODEM: GWXXBX
DOCUMENT TYPE: CAPUM COUNT 2
EARNLY ACC NIM COUNT 2

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2120367	A	19711111	DE 1971-2120367	19710426 <
ES 389548	A1	19730616	ES 1971-389548	19710325 <
GB 1340894	A	19731219	GB 1971-10219	19710420 <
PR 2092096	A1	19720121	FR 1971-14802	19710426 <
FR 2092096	A5	19720121		
ZA 7102663	A	19720126	ZA 1971-2663	19710426 <
CH 534685	A	19730430	CH 1971-6092	19710426 <
US 3862938	A	19750128	US 1972-230459	19720229 <
ORITY APPLN, INFO.:			US 1970-32346 A	19700427

RITY APLN. INFO.:

For diagram(s), see printed CA Issue.

Title compds... useful as antiviral agents against myxoviruses, were prepared by reaction of 5-(2-chloroethyl)-2.3-piperalizediones with amines to give the corresponding aminoethylpiperazinediones (I) and reduction of I with LiAll4 to give the piperazines (II). Thus, I (R = Me, Rl = cI) was refluxed 4 hr in morpholine to give 70 I (R = Me, Rl = cI) was morpholine (IV); iso-pr. NHe2 (IV); cyclohexyl, morpholino (VI); cyclohexyl, morpholino (VIII); cyclohexyl, MMe2. IV, VII, and VIII against (IV, VII, and VIII against (IV, VII, and VIII against parainfluenza type III, and VIII was active against respiratory syncytial virus.

Brich Leese

virus. 34933-34-1P 34933-35-2P 34933-38-5P RL: SPN (Synthetic preparation); PREP (Preparation)

36115-92-1 CAPLUS 1-Propanone, 1-[4-[2-hydroxy-3-(3-methyl-4-phenyi-1-piperazinyl)propoxy]phenyl]- (9CI) (CA INDRX NAME)

L9 ANSWER 103 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1572:90929 CAPLUS
TITLE: 163:90929 CAPLUS
TOUCHENT NUMBER: 76:80929
Heats of protonation of piperazine and some derivatives in water-ethanol media
Berthon, Guy, Brea, Octav, Hounghossa, Kouassi
Lab. Thermodyn. Chim. Electrochim. Univ. Poitiers.
Poitiers, Fr.
Comptes Rendus des Seances de l'Academie des Sciences.
Serie C: Sciences Chimiques (1971),
273(18), 1140-3
CODEN: CHOCAQ, ISSN: 0567-6541
LANGUAGE: Prench

DOCUMENT TYPE: LANGUAGE:

MENT TYPE:

Journal

Journal

Journal

Journal

Journal

Journal

Journal

At 25° with water-52° EtoH as solvent and ionic strength 0.1

At 25° with water-52° EtoH as solvent and ionic strength 0.1

At 25° with water-52° EtoH as solvent and ionic strength 0.1

At 25° with water-52° EtoH as solvent and ionic strength 0.1

At 25° with water-52° EtoH as solvent and ionic strength 0.1

At 25° with water-52° EtoH as solvent and ionic strength 0.1

At 25° with water-52° EtoH as 1, 20° with 25° with

PN 35947-12-7 CAPLUS

<12/04/2007>

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(preparation of) 34933-34-1 CAPLUS

34933-34-1 CAPLUS
Morpholine, 4-[2-(4-methyl-1-phenyl-2-piperazinyl)ethyl]- (9CI) (CA INDEX

14933-35-2 CAPLUS
Morpholine, 4-[2-(4-ethyl-1-phenyl-2-piperazinyl)ethyl]- (9CI) (CA 1NDEX NAME)

34933-38-5 CAPLUS
Piperazine, 1-phenyl-2-[2-(1-piperidinyl)ethyl]- (9CI) (CA INDEX NAME)

L9 ANSWER 105 OF 134
ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:
AUTHOR (8):
CORPORATE SOURCE:
SOURCE:
DOCUMENT TYPE:
DOCUMENT T

DOCUMENT TYPE: LANGUAGE: English

Por diagram(s), see printed CA Issue.

Eight fi-alanine derivs., related structurally to the D-ring of lysergic acid diethylamide (LSD), were synthesized and examined for psychotomimetic activity in rats. On the basis of 11 parameters studied, such as behavioral effects, hyperthemia, and effects on brain catechol amines, little similarity was observed between these derivs. and LSD. Et 3-(cyclocytylamino)propionate (I) exhibited the action profile most like LSD, followed by 3-14-(4-methoxyphenyl)-3-methyl-1-piperazinyl-1-N,N-diethylpropionamide (I1), Et 3-14-(4-methoxyphenyl)-3-methyl-1-piperazinyl-1-N,N-diethylpropionamide (I1), Et 3-14-(4-methoxyphenyl)-3-methyl-1-piperazinyl-1-N,N-diethylpropionamide. 3-(2-Mor-pholinoethylamino)-N,N-diethylpropionamide showed no neurochem. effects similar to LSD. 32559-61-8 32835-69-1

RL: BTOL (Biological study) (Orain amino acids and pyrocatechol amines in response to) 32559-61-8 CAPLUS
1-Piperazingeropanoic acid, 4-(4-methoxyphenyl)-3-methyl-, ethyl ester, hydrochloride (9CI) (CA INDEX NAME)

32835-69-1 CAPLUS 1-Piperazinepropanamide, N,N-diethyl-4-(4-methoxyphenyl)-3-methyl-, hydrochloride (9C1) (CA INDEX NAME)

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L9 ANSWER 107 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 1970:66985 CAPLUS DOCUMENT NUMBER: 72:66985

DOCUMENT NUMBER: TITLE: PATENT ASSIGNEE(S):

72:66985
Piperazinyl derivatives
Byk-Gulden Lomberg Chemische Fabrik G.m.b.H.
Brit. . 9 pp.
CODEN: BRXXAA
Patent
English
1

DOCUMENT TYPE: LANGUAGE: PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

27128.75.2 CAPLUS 1-Piperazinepropionanilide, 2'-bromo-4',5'-dimethoxy-3-methyl-4-phenyl-(8CI) (CA INDEX NAME) 10/513699

●x HC1

CAPLUS COPYRIGHT 2007 ACS on STN 1970:78383 CAPLUS . 72:78383 Herbicidal halogen-containing amino alcohols Esso Research and Engineering Co. L9 ANSWER 106 ACCESSION NUMBER DOCUMENT NUMBER: ANSWER 106 OF 134

TITLE: PATENT ASSIGNEE(S); SOURCE;

Brit., 19 pp. CODEN: BRXXAA

DOCUMENT TYPE; Patent English 1

LANGUAGE: PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE 19700121 GB 1967-46007 . OB 1178420 DE 1643315 US 3520929 19671009 <--US 35:0929 19700721 US 19561019 <RETY APPLN, INFO:
US 19661019
Herbicidal and fungicidal title compds, were propared by reaction of halo ketcomes and aldehydes with amines. Thus 3: g (P3C)20 was passed into a solution of 60 g N,N-dimethyl-1,3-propanediamine in 200 ml Et20 at -50° to give 2-13 (dimethylamino)propylamino)-1,1,1,3,3-hexafluoro-2-propanol, m. 62.5-3.5°. Similarly 58 compds, were prepared, and screened as pro- and postemergent herbicides at 10 lbs/acre on millet, ryegrass, sorghum, anter, buckwheat, and turnip. Bean rust fungus Uromyces phaseoli and Erysiphe polygoni bean mildew were controlled by 1000 ppm of most of the compds, tested.
26799-46-2P
RL: SPN (Synthetic preparation), PREP (Preparation)
(preparation of)
26799-46-2 CAPLUS
1-Piperatinemethanol, 3-methyl-4-phenyl-u,u-bis(trifluoromethyl)- (SCI) (CA INDEX NAME) 19700721 19661019 <--US

<12/04/2007>

Erich Leese

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CAPLUS COPYRIGHT 2007 ACS on STN
1969:78009 CAPLUS
70:78009
N-[2-{Pyrazol-4-ylcarbonyl}ethyl}-N-arylpiperazines
CIBA Ltd.
Fr., 23 pp.
CODEN: PRXXAK
PAPART L9. ANSWER 108 OF 134
ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:
PATENT ASSIGNEE(S):

SOURCE

DOCUMENT TYPE: LANGUAGE: FAMILY ACC, NUM. COUNT: PATENT INFORMATION:

	PATENT NO.		KIND	DATE	APPLICATION NO.	DATE
	FR 1510206			19680119	PR 1966-87512	19661215 <
	US 3470184			19690930	US	19661222 <
RIC	RITY APPLN.	INFO.;			CH	19651223

US 3470184 1966122 --RITTY APPLN. INFO.:

OH 19661110

Por diagram(s), see printed CA Issue.

Pyrazol-4-ylcarbonylethyl piperazines (1), useful as hypotensive agents, as a sea of the proper of the

<12/04/2007>

Erich Leese

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
21635-267 - CAPLUS
Pyrazole-1-Carboxylic acid, 5-methyl-4-(3-(3-methyl-4-phenyl-1piperazinyl)propionyl)-, ethyl ester (8C1) (CA INDEX NAME)

L9 ANSMER 109 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1956:4443935 CAPLUS
DOCUMENT NUMBER: 59:43935
TITLE: 1-(2-Rthoxy-2-phenylethy)-4-arylpiperazines
INVENTOR(S): De Stevens. George; Mull, Robert P.
CIBA Ltd.
CODEN: SMXXAS
DOCUMENT TYPE: CAPURD COMEN: SMXXAS
PALENTE LANGUAGE: PALENTE COMEN: MARKAS
PALENTE COME

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

DATE

APPLICATION NO.

PATENT NO. KIND DATE APPLICATION NO. DATE

CH 446350

CH 446350

CH 1964-5582

19640120 <-Por diagram(s), see printed CA Issue.

2-MeoCeH4NH(CH2) 2NH2 (69 g.) and 9.2 g. EtoCHPhCH2C1 in 250 ml. was
refluxed 24 hrs. to give 2-MeoCeH4NH(CH2) 2MHCH2CH(OEt) Ph. which (5 g.) in
40 ml. BuOH was refluxed 17 hrs. with 3 g. (CH2B7)2 and excess Na2CO3 to
give 1:(2-ethoxy-2-phenylethyl)-4:(2-methoxyhenyl) piperaxine (1) (R \*
2-MeoCeH4, R1 \* H), di-HCl salt m. 215-17\* (EtOH-MecN). Similarly
prepared were the following I (R, R1, b.p./mm., salt, and m.p. salt given):
Ph. N. 177-80\*/0.35, di-HCl, 225-8\*; 2-ClCCH4, H.
165-80\*/0.55, HCl, 200-3\* (EtOA): Ph. Me.
165-80\*/0.5, di-HCl, 130-5\* (EtOH); 3-MeC6H4, H.
185-90\*/0.5, di-HCl, 197-9\* (EtOH); and 2-pyridyl, H,
185-90\*/0.5, di-HCl, 125-30\* (EtOH-RE2O). 1 show

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Mannich bases (e.g. I and II) were prepared, from quinolinols, isoquinolinols, phenols, biphenols, and ketones. Their antibacterial properties were evaluated. 25 references.
16387-94-3P 16403-72-8P 16403-77-3P
16403-73-4P 16470-78-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
16387-94-3 CAPLUS
4-Biphenylol, 3-[14-(p-chlorophenyl)-3-methyl-1-piperarinyl]methyl]- (8CI)
(CA INDEX NAME)

CH2-CH== CH2 н2с== сн- сн2 HO. OH.

16403-77-3 CAPLUS [m,m'-Bitoly]-4,4'-diol, a,a'-bis[4-(p-chlorophenyl)-3-methyl-1-piperazinyl]- (8CI) (CA INDEX NAME)

antiinflammatory, antihypertensive, adrenolytic, diuretic, and saliuretic activity and are norepinephrine antagonists.
853-91-8P 851-92-9P
RL: SPN (Synthetic preparation), PREP (Preparation)
(preparation of)
853-91-8 CAPLUS

Piperazine, 4-(\(\beta\)-ethoxyphenethyl)-2-methyl-1-phenyl- (7CI, 8CI) (CA INDEX NAME)

853-92-9 CAPLUS
Piperazine, 4-(||-ethoxyphenethyl)-2-methyl-1-phenyl-, dihydrochloride
(7CI, 8CI) (CA INDEX NAME)

●2 HC1

L9 ANSWER 110 OF 134 ACCESSION NUMBER:

DOCUMENT NUMBER: TITLE:

Quinoline,

ANSMER 110 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN

1968:2801 CAPLUS

58:2801 CAPLUS

58:2801 CAPLUS

FORATE SOURCE: Selection and B-aminoketone derivatives

Magarian, Robert A.; Nobles, W. Lavis

Univ. of Mississippi, University, MS, USA

Journal of Pharmaceutical Sciences (1967),

56(8), 997-92

CODEN: JPMSAP, 195N: 0022-3549

Journal English

For diagram(s), see printed CA Issue. AUTHOR(S): CORPORATE SOURCE: SOURCE:

DOCUMENT TYPE:

<12/04/2007>

Erich Leese

10/513699

$$\begin{array}{c|c} & \text{HO} & \text{OH} \\ & \text{CH}_2 & \text{CH}_2 & \text{N} \\ & \text{Me} \end{array}$$

16403-78-4 CAPLUS  $\{m,m'-Bitolyl\}-4,4'-diol, \quad \alpha,\alpha'-bis(3-methyl-4-p-tolyl-1-piperazinyl)- \quad (8CI) \quad (CA \ INDEX \ NAME)$ 

$$\begin{array}{c} \text{HO} \\ \text{N-} \\ \text{CH}_2 \\ \text{Me} \end{array}$$

RN CN

CAPLUS 1,1'-methylenebis[4-(p-chlorophenyl)-3-methyl- (&CI) (CA

PAGE 1-A

L9 ANSWER 111 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION HUMBER: 1966:104296 CAPLUS DOCUMENT NUMBER: 64:104296 GAPLUS 64:19641a-h,19642a

TITLE: INVENTOR(S):

Diazacycloalkanes Yost, William L., Margerison, Richard B. CIBA Corp.

INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
PAMILY ACC. NUM. COUNT:
PATENT INPORMATION: 10 pp. Patent Unavailable

.

PATENT NO. KIND DATE APPLICATION NO. DATE 19660419

PATENT NO. XIND DATE ATTRIBUTED BY STATEMENT OF THE STATE

<12/04/2007> Erich Leese

10/513699

1-Piperazinecarboxanilide, 3-methyl-4-phenylthio- (7CI, 8CI) (CA INDEX

1.9 ANSHER 112 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 366:59736 CAPLUS
COCUMENT NUMBER: 46:59736 CAPLUS
ORIGINAL REFERENCE NO.: 64:11149g-h.11150a-e
TITLE: 1.3-Cycloadditions of azomethinylides from aziridinecarboxylic esters
AUTHOR(S): Huber. Helmut
CORPORATE SOURCE: Univ. Munich, Germany
SOURCE: Tetrahedron Letters (1966), (4), 397-404
COODS. TELEAY: ISSN: 0040-4039
DOCUMENT TYPE: Journal
GI For diagram(s), see printed CA Issue.
AB cf. Heine-and Peavy, CA 63, 14796e. By a ring opening between the 2 and 3 positions, di-Me 1-(p-methoxyphenyl)aziridine-2,3-dicarboxylate (1) adds to C:C and C.tplobnd.C compds. to give pyrrolidine or pyrroline derivs. Heating di-Me 1-(p-methoxyphenyl)aziridine-2,3-dicarboxylate (1) adds to C:C and C.tplobnd.C compds. to give pyrrolidine or pyrroline derivs. Heating di-Me 1-(p-methoxyphenyl)aziridine-2,3-triazoline-4,5-trans-dicarboxylate at 100° gives I as a 15:85 cis-trans mixture The reactions and epimerizations of I presumably proceed through the intermediate formation of epimers of MeoZCCH: N. (p-MeoC6H4H2-HCC2Me.
Heating di-Me fumarate (II) and I at 140° yields 94 tetra-Me
1(p-methoxyphenyl)pyrrolidine-2,3-4,5-tetracarboxylate (III)containing an oily isomer (IIIa) and 59% of a crystalline isomer (IIIb), m. 112-112°. IIIa and IIIb are dehydrogenated by chloranil (IV) in bolling Becalin to give 21 and 22% yields, resp., of tetra-Me 1-(p-methoxyphenyl)pyrrolid-2,3-4,5-tetracarboxylate (III)containing and spepared in 61% yield from II and p-MeoCc6H4N3 at 190-140°. At 120°. I and (EGDC2CLSH: N) at

II with 11.37 g. LiAlH4 yielded 57.4\* VII, b1, 117-25\*, phenylthiocarbamoyl derivative m. 163-5\* (EtOH). A mixture of 312.2 g. Nai933, 590 ml. H2O, and 43.5 g. Me2CO, prepared at 60-70\*, was refluxed 45 mln. and treated at 95\* with 46.5 g. PhNH2. After 1 hr. reflux and addition of 100 ml. Me2CO and 29.5 g. NaCN in 65 ml. H2O, refluxing was continued 30 mln. to give 68.8 g. N. 12-(cyano-2-propylaniline (XII), m. 92-4\* (504 EtOH). Refluxing 19.2 g. XII and 14.8 g. CLCI2COCI in C6H6 with Na2CO3 yielded III, m. 83-90\* (AcOEX), which was dissolved in 85 ml. THY and added dropwise to 12 g. LiAlH4 in 300 ml. THY. The mixture was refluxed 6 hra. quenched with 19 ml. H2O and 13 ml. 15\* NaON, filtered, and evaporated The residue was refluxed 2.5 hrs. with Na2CO3 in PhNet to give 3.7 g. VIII. bl. 110-15\*, phenylthiocarbamyl derivative m. 193-2\*. Refluxing with 110-15\*, and 27.7 g. g. (ICH2COCC 45 mln. in C6H6 with 21.2 g. Na2CO3 gave cruck N. (Pa-floroproping)-N. (1-cyanomethyl)aniline (ALM). Addition of 17.3 ml. H2O and 11.8 ml. 15\* NaON, filtration, oration.

(XIII), which was treated with 10.9 g. LiAliki in 385 ml. THF (6 hrs. reflux). Addition of 17.3 ml. H20 and 11.8 ml. 158 NaOH, filtration, evaporation. The three with NaCOO in refluxing PhMe, and distillation gave treatment of the residue with NaCOO in refluxing PhMe, and distillation gave treatment of the residue with NaCOO in refluxing PhMe, and distillation gave similarly, a solution of 34.2 g. XIII in 150 ml. THF was added to 16.15 g. LiAliki in 400 ml. THF at 37.40° and the mixture kept 2.5 hrs. to give 33.98 (hased on XI) XIV, bl. 118-20°. In this case, XIII was prepared from 29.2 g. XI, 27.7 g. ClCH2/2COC1, and 21.2 g. NaCOO in 350 ml. (ClCH2/2 by stirring 2.5 hrs. at -15° and keeping 16.5 hrs. at -35° to -40° to give a yield of 56.6 g. A mixture of 29.2 g. XI, 30 g. ClCH2/3COC1, and 21.2 g. Na2COO was refluxed 45 ml. in Colist to give crude N-(y-chlorobutyryl)-N-(1-cyanoethyl) aniline, which was treated with 10.9 g. LiAliki in 188 ml. THF (6 hrs. reflux) to give 10.4 g. 2-methyl-1-phenyl-1.4-diszacyclooctane, bl. 138-42°. The reaction of paraformaldehyde with PhMH2 and MCN and treatment of the N-cyanomethylaniline with ClCH2COC1 led to IV, which was treated with 3 equivs. LiAliki to give IX, b6 156°. Similarly, paraformaldehyde, expanomethylaniline with ClCH2COC1 to give V. Reduction of V with 3 equivs. LiAliki furnished X, b. 156-63°. Reaction of H2C:CHCN with MeMH2 in the presence of a little PhCH2MM93OH gave N-Cyanomethyl-N-methylanic (XV), which was treated with ClCH2COC1 and reduction of the condensation product with LiAliki led to 1-methyl-1.4-diszacyclootcane, bl. 27-13°, was obtained. The new diszacycloalkanes are useful as anthelmintics and as intermediates for pharmaceuticals and germicides.

IT 2946-76-1P, Piperazine, 2-methyl-1-phenyl-4-318-46-1P, 1-perazineactoxoxanilide, 3-methyl-4-phenylthio-R. PREP (Preparation) (preparation of)
(preparation of)

RN 4318-46-1 CAPLUS

<12/04/2007>

Erich Leese

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-di-Me α,α'-dihydroxymuconate (Kuhn and Dury, CA 45, 7017a).

B2C.tplbond.CPh and I at 100° yield 93% of an adduct dehydrogenated by IV in PhMe to give 55% di-Me ester of 3-benzoyl-1-(p-methoxyphenyl)-4-phenylpyrrole-2,5-dicarboxylia caid (VII). VII decarboxylates at 200° to give 3-benzoyl-1-(4-methoxyphenyl)-4-phenylpyrrole-2,5-dicarboxylates at 200° to give 3-benzoyl-1-(4-methoxyphenyl)-4-phenylpyrrole (VIII), characterized by its 2,4-dinitrophenylhydrazone. VIII is also prepared by condensing the Ns derivative of BrCH3CHO with p-MeCCHANICH2Br, and cyclizing the product with concentrated H2804. Photochem. or thermally (150°), I dimerizes to give a mixture from which two isoners, m. 188-9° and 240-18°, of tetra-Me 1,4-bis (p-methoxyphenyl)piperazine-2,3-5-cteracarboxylate have been isolated. Heating Me 1-phenylaxiridine-2-carboxylate (IX) 6 hs. at 200° gave 50% of the di-Me ester of 1,4-diphenylpiperazine-2,3-trans-dicarboxylic acid (X), m. 132-3°, and 5% of the cis ester, m. 105-6°. Distillation of Ca salt of X yields (PHNICH2) 2 and 1.4-diphenylpiperazine. The reaction of IX with trans-(BCCH) 2 (IX) gives a 1:1 adduct, m. 120-1°, and with PhCH:NMe, an adduct, m. 132.5-4° (attructures not given). The addition of 1-benzyl-2,3-trans-dibenzoylaxiridine to XI gives 34% of 1-benzyl-2,3-trans-dibenzoylaxiridine to XI gives 34% of 1-benzyl-2-aziridinecarboxylate (1:1)

RL: PREP (Preparation)

(preparation of)

569-8-6-8 CAPIUS

2-Piperazinecarboxylic acid, 1-phenyl-, methyl ester, compd. with N-benzylideneenthylamine (1:1) (8CI) (CA INDEX NAME)

CM 1

Ma - N == CH-- Ph

<12/04/2007>

L9 ANSWER 113 OF 114
ACCESSION NUMBER:
D65:416903 CAPLUS
ORIGINAL REFERENCE NO.:
ITITLE:
INVENTOR(S):

CAPLUS COPYRIGHT 2007 ACS ON STN
165:416903 CAPLUS
63:16903
63:12985g-h
1-(2-Phenyl-2-ethoxyethyl)-4-phenylpiperarines)
De Stevens, George, Mull, Robert P.

<12/04/2007> Erich Leese

Erich Leese

PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: LANGUAGE: PAMILY ACC. NUM. COUNT: PATENT INFORMATION: CIBA Ltd. 32 pp. Patent Unavailable

	PATENT NO.	KIND	DATE	APPLICATION NO.	
				,	
	BE 642845		19640722	BE	<
	FR 1404442			PR	
	PR M3308			PR	
	PR M3309			PR	
	GB 1047044			GB	
PRIO	RITY APPLN. INPO.:			US	19630123
OTHE	R SOURCE(S):	MARPAT	63:16903		
GI	For diagram(s), sec	printe	d CA Issue.		
AB				prepared and can be use	ed as
				Thus, a mixture of 1	
				enyl)piperazine, and	
				0.0 g. Na2CO3 to give	
				phenyl)piperazine, b	n a
				nd MeCN). Also prepare	
				, and m.p. 2HCl salt	given): H, H,
	H, 177-80°/0.35, 23				
	200-3° (EtOAc); Me.				
	H, H, Me, 185-90°/C	).2, 197	-9° (EtOH).	Also prepared are	
	1-(2-ethoxy-2-pheny	lethyl).	4-(2-pyridy)	l)piperazine (b0.5 18:	5-90°,
	2HCl salt m. 125-30	o (EtOH	and Et 2011,	1-(2-hydroxy-2-phenyl	ethyl)-
				CH2) 2NCH2CH (OEt) Ph.	•
IT	853-91-8P, Piperazi				
	phenyl - 853-92-9P,				
	methyl-1-phenyl-, o			, p, 1, - 2 -	
	RL: PREP (Preparati	OIL			

RL: PREP (Preparation)
(preparation of)
853-91-8 CAPLUS
Piperazine, 4-(β-ethoxyphenethyl)-2-methyl-1-phenyl- (7CI, 8CI) (CA
INDEX NAME)

85]-92-9 CAPLUS Piperazine, 4-(||-ethoxyphenethyl|)-2-methyl-1-phenyl-, dihydrochloride (7CI, 8CI) (CA INDEX NAME)

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Brich Leese

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●2 HC1

905-90-8 CAPLUS Piperazine, 4-(H-ethoxy-p-fluorophenethyl)-2-methyl-1-phenyl-, dihydrochloride (7CI, 8CI) (CA INDEX NAME)

●2 HC1

1168-17-8 CAPLUS
Piperazine, 4-(3-ethoxy-3-phenylpropyl)-2-methyl-1-phenyl-,
dihydrochloride (7CI, 8CI) (CA INDEX NAME)

2281-97-2 CAPLUS Piperazine, 4-(3-methoxy-3-p-tolylpropyl)-2-methyl-1-phenyl-, dihydrochloride (7CI, 8CI) (CA INDEX NAME)

10/513699

●2 HC1

L9 ANSWER 114 OF 134
ACCESSION NUMBER: 1965:85303 CAPLUS
OCCUMENT NUMBER: 052:85303 CAPLUS
62:85303 CAPLUS
62:

U. Oral Therap. Pharmacol. (1965), 1(4),
421-7

MENT TYPE: Journal
UNGE: Bengliah

For diagram(s), see printed CA Issue.
Carbocaine I (R = Me, R' = N) was clinically tested with analogs
(Exenstam, CA 52, 14609e) for local anesthetic activity. I (R \* Et, R' =
N) and I (R = H, R' = M) was clinically tested with analogs
(Exenstam, CA 52, 14609e) for local anesthetic activity. I (R \* Et, R' =
N) and I (R = H, R' = Me) were longer lasting than carbocaine, though the
time of onset was somewhat longer.
851-92-9P, Piperarine, 4 - (N-ethoxyphenethyl) - 2-methyl - 1phenyl -, dihydrochloride 965-90-8P, Piperarine,
-(N-ethoxy-p-fluorophenethyl) - 2-methyl - 1-phenyl -, dihydrochloride
1168-17-8P, Piperarine, 4 - (3-ethoxy-3-phenylpropyl) - 2-methyl - 1phenyl -, dihydrochloride 281-97-2P, Piperarine,
-(3-methoxy-3-p-tolylpropyl) - 2-methyl - 1-phenyl -, dihydrochloride
RL: PREF (Preparation)
(preparation of)
(preparation of)
S1-32-9 CAPUJO
(7CI, 8CI) (CA INDEX NAME)

<12/04/2007>

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10/513699

L9 ANSMER 115 OF 134
ACCESSION NUMBER:
DSCUMMENT NUMBER:
OFFICIAL REPERENCE NO.:
CRIGINAL REPERENCE NO.:
AUTHOR(S):
CORPORATE SOURCE:
SOURCE:
SOURCE:
DDCUMENT TYPE:

CAPLUS COPYRIGHT 2007 ACS on 8TN
1955:85302
CAPLUS
C2:15243f-g
N.N.\*-Disubstituted compounds with diverse biological activities
activities
Mull, Robert P.; Tannenbaum, Carl, Dapero, Mary R.;
Bernier, Marcel; Yost, William, De Stevens, George
CIBA Corp., Summit, NJ
Journal of Medicinal Chemistry (1965), 8(3),
312-6
CDEN, JMCMAR, ISSN: 0022-2623
JOURNAL OF SUMMERS ACCESSION NUMBERS ACC

OCDEN; JMCMAR; ISSN: 0022-2623
JOURNAL
CODEN; JMCMAR; ISSN: 0022-2623
JOURNAL
AND JOURNAL

<12/04/2007> Erich Leese

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●2 HC1

905-90-8 CAPLUS
Piperaine, 4-(f)-ethoxy-p-fluorophenethyl)-2-methyl-1-phenyl-,
dibydrochloride (7CI, BCI) (CA IMDEX NAME)

1168-17-8 CAPLUS Piperazine, 4-(3-ethoxy-3-phenylpropyl)-2-methyl-1-phenyl-, dihydrochloride (7CI, 8CI) (CA INDEX NAME)

●2 HC1

2281-97-2 CAPLUS Piperazine, 4-(3-methoxy-3-p-tolylpropyl)-2-methyl-1-phenyl-, dihydrochloride (7CI, 8CI) (CA INDEX NAME)

<12/04/2007>

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DATE

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L9 ANSWER 117 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1965:74269 CAPLUS OCCUMENT NUMBER: 62:74269 ORIGINAL REPERENCE NO.: 62:13159h,13160a-d 62:131999,13160a-d Cyclic diaza compounds Yost, William L.; Margerison, Richard B. CIBA Ltd. INVENTOR (S) PATENT ASSIGNER(S):

PATENT ASSISTMENT; SOURCE: DOCUMENT TYPE: LANGUAGE: PAMILY ACC. NUM. COUNT: PATENT INFORMATION: 48 pp. Patent Unavailable

PATENT 'NO.

APPLICATION NO. KIND DATE PRIORITY APPLN. INFO.:

PRIORITY APPLN. INFO.:

OB 1963-949434 19631003 <--
BRIORITY APPLN. INFO.:

OB 1962-968. of the general formula X(CH2)nNR(CH2)mCN, in which X is halogen, m and n may be 1 or 2, and some or all C atoms may have alkyl or other groups, are cyclized by reduction with LiAlHa or similar agents, hydrolysis, and heating with alkall. A solution of 31.37 g. LiAlHa in 280 ml. tetrahydrofuran was added dropwise at 25 to 22.26 g. PhN(COCH3C1)CHMMCN (I) in 85 ml. tetrahydrofuran. After the initial reaction subsided the solvent was distilled, and replaced by toluene.

Distillation

was continued at such a rate that 500 ml. total distillate was collected

PhN(COCH2C1)CHMCCN (I) in 85 ml, tetrahydrofuran. After the initial reaction subsided the solvent was distilled, and replaced by toluene. illation was continued at such a rate that 500 ml, total distillate was collected in 50 min. and pot temperature was 110° After 6 hrs. addni. heating the mixture was cooled and poured into 15 NaON solution After several hrs. the organic layer was washed and evaporated to dryness. The product was then refluxed in 50 ml. toluene with 8.5 g. Na2C02 hrs., the solvent evaporated, and the 2-methyl-1-phenylpjerazine was distilled, bl 115-25°; 4-phenylthiocarbanatem. 158-60° dalc.). Anline(745 g.) was slowly added at 60-70° to a solution of addition product of 352 g. Acil and 830 g. NaNSO1 in 1540 ml. water. The mixture was diluted with 200 ml. water and a solution of 405 g. NaCN in 900 ml. water was added in 15 min. The mixture was stirred 20 min. cooled to 10° and filtered and H20 added to give N-(1-cyanoethyllaniline (IT), m. 30-2° (alc.). A solution of 18.2 g. CICH2COCI in 87 ml. henzene was slowly added to a mixture of 17.0 g. II in 87 ml. benzene and 12.0 g. Na2C01. The mixture was boiled and acided to a solution of 18.5 agreeups alc. and cooled to -6° to give 117-25° (phenylthiocarbanate m. 163-5° (alc.)], and the residuands cooled to 100 ml. Sol. agreeups alc. and cooled to -6° to give 1, m. 466-8°. Similarly prepared were. 2.5-dimethyl-1-phenylpiperazine, bl 110-15° (phenylthiocarbanate m. 163-5° (alc.)], in the following piperazines (substituents given): 2.2-dimethyl-1-phenyl-1.0-(1-cyanoethyl). m. 83-6° (EtCAC), N-(1-chloropropionyl)-N-(1-cyanoethyl). m. 83-6° (EtCAC), N-(1-chloropropionyl-N-1-(-cyanoethyl). The solution of the compas. prepared were: 2-methyl-1-phenyl-1.4-diazacycloheptane, bl 130-2°; 2-methyl-1-phenyl-1.4-diazacycloheptane, bl 130-2°; 2-methyl-1-phenyl-1.4-diazacycloheptane, bl 130-2°; 2-methyl-1-phenyl-1.4-diazacycloheptane, bl 20-4 (ml. 20-4) (m

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●2 HC1

2946-76-1 CAPLUS
Piperazine, 2-methyl-1-phenyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

L9 ANSMER 116 OF 134 CAPLUS COPYRIGHT 2007 ACB on STN
ACCESSION NUMBER: 1965:85301 CAPLUS
DOCUMENT NUMBER: 62:85301
ORIGINAL REFERENCE NO.: 62:85301
ORIGINAL REFERENCE NO.: 62:15243e-f
Structure-activity relations in the field of antibacterial steroid acids
AUTHOR(S): Fried, Josef, Krakower, Gerald W., Rosenthal, David, Fried, Josef, Krakower, Gerald W., Rosenthal, David, Basch, Harold
CORPORATE SOURCE: Squibb Inst. for Med. Res., New Brunswick, NJ Journal of Medicinal Chemistry (1965), 8(3), 279-82
CODEN: JOURNAL SESSION 0022-2623
DOCUMENT TYPE: JOURNAL English
AB The antibacterial activity of a variety of steroidal and triterpenoid acids was determined using Staphylococcus aureus 209P as the test organism. Activity was less dependent on specific structural and steroo-chemical features than had been anticipated. All active compds. have a rigid polycopic skeleton with a carboxyl group close to an O function or a double bond.

IT 2946-76-1P, Piperazine, 2-methyl-1-phenylRL: PREP (Preparation)
(preparation of)
RN 2946-76-1 CAPLUS
CN Piperazine, 2-methyl-1-phenyl(CA INDEX NAME)

<12/04/2007>

Brich Leese

RL: PREP (Preparation)
(preparation of)
2946-76-1 CAPLUS
Piperazine, 2-methyl-1-phenyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

4318-46-1 CAPLUS 1-Piperazinecarboxanilide, 3-methyl-4-phenylthio- (7CI, 8CI) (CA INDEX

L9 ANSWER 118 OF 134 ACCESSION NUMBER: CAPLUS COPYRIGHT 2007 ACS on STN 1965:66601 CAPLUS

1965:66601 CAPLUS
62:66601 62:11833a-d
Substituted piperaxines
de Steven, George; Mull, Robert P.
Ciba Soc.
34 pp.
Patent
Unavailable

ACCESSION NUMBER:
DOCUMENT NUMBER:
ORIGINAL REPERENCE NO.:
TITLE:
INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:

LANGUAGE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

APPLICATION NO. DATE PATENT NO. PRICET NO. ALL SOLUTION PRICE NO. STATE OF THE PRICE NO. STATE OF TH

<12/04/2007>

Erich Leese

IT

198-9° (EtOH) (free base bo.6 190-200°) was prepared by refluxing 5 g. PhS(CR2)2Br and 4.35 g. 1-phenylpiperazine in 200 cc. BuOH containing 10 drops N2O and 6 g. Na2CO3 92 hrs. I was also prepared by refluxing 7.65 g. PhS(CR2)2NN2 (11), 10.5 g. PhN([CR2)2Cl]2 in 50 cc. MeOH. and excess K2CO3 15 hrs., or similarly using N.N-bis[2-chloro-ethyl)-N-(2-phenyl-thiodethyl maine (111) and 10 g. PhNN12. 2-(4-tert-Butylphenylthiodethyl bromide, m. 176-7°, was prepared by adding 35.6 g. Cl(CR2)2OH to 55 g. 4-tert-butylthiodethyl zcc. 10% NaOH, stirring the solution 1 hr. at room temperature, and refluxing the mixture 30 to

stirring the solution 1 hr. at room temperature, and refluxing the mixture 30 to give 2-(4-tert-butylphenylthio)-ethanol b12 175-6° which (21 g.) was added dropwise to 10.84 g. PBr3 and 3 g. pyridine at 0° and stirred overnight. II was prepared by refluxing 46 g. Ph6(CH2)2Br, 44 g. IX pthallainde, and a few crysts. iodine in 80 cc. HCOMHW2 2 brs., refluxing the crude product 2 brs. with 20 g. N2H4 in 200 cc. MeOH, cooling, acidifying the solution with HCI, and refluxing 30 min. III was prepared by heating for 16 hrs. in a sealed tube 15.3 g. Ph8(CH2)2NN12 and 9 g. (CH2)20 and adding 23.5 g. of the obtained N.H-bis(2-hydroxyethyl)-N-12-20-phenylthioethyl)amine with cooling to 25 g. PC15 in 100 cc. dry CMC13 and refluxing the mixture 2-(2-isopropy)phenylthiolethyl) bromide. b12 157-8°, was prepared from 2-isopropylthiophenol and HCCH2CH2Cl and the product, 2-(2-isopropy)phenylthiolethhanol, bil 30-5°, treated with PBr3 and cSH5NA, the title compds, are antihypertensive and antilnflammatory agents.
1035-99-2P Representine, 2-methyl-1-phenyl-4-(2-(phenylthio)ethyl)-(preparation of) (preparation of)

(preparation of)
1039-99-2 CAPLUS
Piperazine, 2-methyl-1-phenyl-4-[2-(phenylthio)ethyl]-, dihydrochloride
(7CI, 8CI) (CA INDEX NAME)

CH2-CH2-SPh

●2 HC1

L9 ANSWER 119 OF 114 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 1655:66597 CAPLUS
DOCUMENT NUMBER: 62:66597
RIGINAL REFERENCE NO: 62:11331c-h,11832a-d
TITLE: N-Aryl-N'-aralkyldiazacycloaikanes
INVENTOR(S): De Stevens, George; Mull, Robert P.
PATENT ASSIONEE(S): CIBA Corp.
SOURCE: 14 DD.

PATENT ASSIGNEE(S); SOURCE: DOCUMENT TYPE: LANGUAGE: 14 pp. Patent Unavailable

## 10/513699

1-(2-methylphenyl)piperazine dihydrochloride, 285 g. paraformaldehyde, and 1735 g. 4-methylacetophenone in 7800 ml. RtON was refluxed 24 hrs. with stirring and cooled to -10° and the precipitate filtered off and washed 3 times with 1000 ml. cold acetone to give 2850 g. 1-(3-(4-methylphenyl)-3-oxopropyl) -4-(2-methylphenyl)piperazine hy-drochloride (IV), m. 209-11°. Reduction of 2660 g. IV with 407 g. NaNBA gave 2530 g. 1-(3-hydroxy-3-(4-methylphenyl)piperazine (V), in. 80-3°. A solution of 2530 g. V in 19 ml. benzene was gassed with HCl to a pN of 2 and treated with 2750 g. Soc12 in 12 ml. benzene, the mixture refluxed 2 hrs., and the remaining SOC12 and benzene were distilled The residue in 12 ml. EtOH was held below 15° while adding 718 g. Na in 23 ml. EtOH and then refluxed 1 hr. The solution was evaporated to 888

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FAMILY ACC. NUM, COUNT: 1 PATENT INFORMATION:

APPLICATION NO. US 1963-315405 US PATENT NO. DATE

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

PATENT NO. KIND DATE APPLICATION NO. DATE

19631010 <-1978108127 19650202 US 1963-315405 19631010 <-1978108127 APPLIN INFO:

US 3168522 19650202 US 1963-315405 19631010 <-1978108127 APPLIN INFO:

US 197917 Total agrants). see printed CA Issue.

AB The tritle compds. (I) have adrenolytic, antihypertensive, antiinflammatory, diuretic, saliuretic, analgesic, and antifibrillatory properties. To a solution of 8.8 g. 2-methyl-1-phenylpiperazine in 85 ml. toluene was added 2.4 g. of a mineral oil suspension (53%) of NaH. The mixture was refluxed 2 hrs. and then refluxed overnight with 11.6 g.

3-ethoxy-3-(4-methylphenyl)propyl chloride. After filtering off inorg. material, the filtrate was distilled to yield 1-[3-ethoxy-3-(4-methylphenyl)propyl] -3-methyl-4-phenylpiperazine, BD. 2.182-4\*; dihydrochloride m. 190-2\*. In this manner were prepared the I (n = 2) given in the first table. Crude 3-(4chlorophenyl)-3-ethoxypropylamine

(II) was prepared from 50 g. 3-(4-chlorophenyl)-3-ethoxypropyl chloride and 44 g. K phthalimide in 80 ml. dimethylformanide. m.p., R, R1, R2, R3, b.p./mm. m.p. di-IICl salt; Et. H, Me. H. 168-70/0.075, 194\*; iso-Pr. 4-Me. Me. H. 16-54\*/0.04, 189\*, Me. 4-Me. H. 19-24\*/0.05, 194\*; iso-Pr. 4-Me. Me. H. 16-64\*/0.117-19\*, Me. 4-Me. H. 19-24\*/0.05, 195\*, Me. 4-Me. H. 19-24\*

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(preparation of)
442-26-2 CAPLUS
Piperazine, 4-[3-ethoxy-3-(4-methylphenyl)propyl]-2-methyl-1-phenyl(CA INDEX NAME)

745-59-5 CAPLUS
Piperazine, 4-(h-ethoxy-p-fluorophenethyl)-2-methyl-1-phenyl(7CI, 8CI) (CA INDEX NAME)

CAPLUS Piperazine, 4-(3-ethoxy-3-phenylpropyl)-2-methyl-1-phenyl- (7CI, 8CI) (CA IMDEX NAME)

748-03-8 CAPLUS
Piperazine, 4-(3-isopropoxy-3-p-tolylpropyl)-2-methyl-1-phenyl- (7CI, 8CI)
(CA INDEX NAME)

RN 853-91-8 CAPLUS

Piperazine, 4-(%-ethoxyphenethyl)-2-methyl-1-phenyl- (7CI, 8CI) (CA INDEX NAME)

853-92-9 CAPLUS Piperazine, 4-(ii-ethoxyphenethyl)-2-methyl-1-phenyl-, dihydrochloride (TCI, 8CI) (CA INDEX NAME)

●2 HC1

905-90-8 CAPLUS
Piperaine, 4-(H-ethoxy-p-fluorophenethyl)-2-methyl-1-phenyl-,
dihydrochloride (7CI, 8CI) (CA INDEX NAME)

●2 HC1

905-91-9 CAPLUS Piperazine, 4-(3-methoxy-3-p-tolylpropyl)-2-methyl-1-phenyl-, hydrochloride (7CI, 8CI) (CA INDEX NAME)

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1049-29-2 CAPLUS
Piperazine, 4-(3-methoxy-3-p-tolylpropy1)-2-methyl-1-phenyl- (7CI, 8CI)
(CA INDEX NAME)

1051-75-8 CAPLUS
Piperazine, 4-(3-(p-chlorophenyl)-3-ethoxypropyl]-2-methyl-1-phenyl(7CI, 8CI) (CA-INDEX NAME)

1051-76-9 CAPLUS Piperazine, 4-[3-(p-chlorophenyl)-3-ethoxypropyl]-2-methyl-1-phenyl-, dihydrochloride (7CI, 8CI) (CA INDEX NAME)

●2 HC1

1168-17-8 CAPLUS
Piperazine, 4-(3-ethoxy-3-phenylpropy1)-2-methyl-1-phenyl-,
dihydrochloride (7CI, 8CI) (CA INDEX NAME)

● HC1

905-92-0 CAPLUS
Piperazine, 4-[3-(p-chlorophenyl)-3-methoxypropyl]-2-methyl-1-phenyl-(8CI) (CA INDEX NAME)

907-68-6 CAPLUS
Piperazine, 4-(3-ethoxy-3-p-tolylpropyl)-2-methyl-1-phenyl-,
dihydrochloride (7CI, 8CI) (CA INDEX NAME)

●2 HC1

978-11-0 CAPLUS Piperazine, 4-(3-(p-chlorophenyl)-3-methoxypropyl)-2-methyl-1-phenyl-, dihydrochloride (701, 801) (CA INDEX NAME)

●2 HC1

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3792-38-9 CAPLUS Piperazine, 4-(3-isopropoxy-3-p-tolylpropyl)-2-methyl-1-phenyl-, dihydrochloride (7CI, 8CI) (CA INDEX NAME)

●2 HC1

L9 ANSMER 120 OF 134
ACCESSION NUMBER:
DOCUMENT NUMBER:
ORIGINAL REPERENCE NO.:
First ASSIGNEE(S):
SOURCE:
SOURCE:
SOURCE:
SOURCE:
ASSIGNEE(S):
SOURCE:
TANGLARY ACC. NUM. COUNT:
FAMILY ACC. NUM. COUNT: INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
PAMILY ACC. NUM. COURT:
PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

PRIORITY APLM INFO: US 1960-14502 19500314 cPRIORITY APPLM INFO: US 1960-14502 19500314 c19600314
GI For diagram(a). see printed CA Issue.
AB The title compds. (I). in which Y is alkylene and R is alkyl or aryl, were made. Thus, a mixture of 21.7 g. Me 9-hydroxy-fluorene-9-carboxylate, 14.2 g. N-methyl-Ni-(3-hydroxypropyl)-piperazine, 0.8 g. MeONa, and 250 cc. heptane was refluxed 6 hrs., during which time 5.3 cc. MeOl was collected. The catalyst was then filtered off and the filtrate washed by H2O to yield

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33.1 g. I (Y \* (CH2)3, R \* Me]; di-HCl salt m. 237° (decomposition)
(MeOB). Similarly prepared were I (Y, R, and m.p. of di-HCl salt given):
MeCRCH2, Me, 234\* (decomposition); MeCHCH2, Ph. 239° (decomposition)
(II). These I have ateractic effects and induce mild muscle relaxation.
II is an antispasmodic.
1864-47-7P, Fluorene-9-carboxylic acid, 9-hydroxy-,
3-(4-phenyl-3-propyl-1-piperazinyl)propyl ester 2003-59-1P,
Pluorene-9-carboxylic acid, 9-hydroxy-, 3-(4-phenyl-3-propyl-1-piperazinyl)propyl ester, dihydrochloride
RL, PREP (Preparation)
(preparation of)
1864-47-7 CAPLUS
Pluorene-9-carboxylic acid, 9-hydroxy-, 3-(4-phenyl-3-propyl-1-piperazinyl)propyl ester (7CI, 8CI) (CA INDEX NAME)

2083-58-1 CAPLUS
Pluorene-9-carboxylic acid, 9-hydroxy-, 3-(4-phenyl-3-propyl-1-piperaxinyl)propyl ester, dihydrochloride (7CI, SCI) (CA INDEX NAME)

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ascarid infection caused 100% egg reduction in dogs and 91% in cats; in one cat with hookworms the egg reduction was 70%.
745-59-5P. Piperazine. 4-(H-ethoxy-p-fluorophenethyl)-2-methyl-1-pheny)- 905-90-8P. Piperazine. 4-(H-ethoxy-p-fluorophenethyl)-2-methyl-1-phenyl- dihydrochloride
RL: PREP (Preparation)
(preparation of)
745-59-5 CAPLUS
Piperazine, 4-(H-ethoxy-p-fluorophenethyl)-2-methyl-1-phenylSCI) (CA INDEX NAME)

905-90-8 CAPLUS Piperazine, 4-(f-ethoxy-p-fluorophenethyl)-2-methyl-1-phenyl-, dihydrochloride (7GI, 8GI) (CA-INDEX NAME)

●2 HC1

L9 ANSMER 12 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1965:22514 CAPLUS
OCCUMENT NUMBER: 65:22514 CAPLUS
OCCUMENT ANDMER: 62:22514 CAPLUS
TITLE: 75:4038e-g
Medicinal piperazine compounds
CIDA d.td.
DATEMIT ASSIGNEE(S): CIDA d.td.
DATEMIT ASSIGNEE(S): CIDA d.td.
LANGUAGE: PARTLEY COMMENT
LANGUAGE: 10 May 1 lable
Patent
LANGUAGE: 10 May 1 lable
TAMBUAGE: 11 LANGUAGE: 11 LANGUAGE: 11 LANGUAGE: 12 LANGUAG

SOURCE:
DOCUMENT TYPE:
LANGUAGE:
PAMILY ACC. NUM. COUNT:
PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE NI. 6400467 19640724 NI. 1964-667 19640122 <-BE 64:2844 BE
PRIORITY APPLIA. INFO.:
US 19630123
GI For diagram(s). see printed CA Issue.
AB The title compdis. (I) show antipyretic, antiinflammatory, hypotensive, adrenolytic, and diuretic properties; they are norepinephrine antagonists.

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●2 HC1

L9 ANSMER 121 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1985:22615 CAPLUS
DOCUMENT NUMBER: 62:22615 CAPLUS
ORIGINAL REFREENCE NO: 52:22615
CAPLUS 63:22615 CAPLUS
63:2018g-1,4019a
Pleprazine-bithionol anthelmintic
cillingham, James M., Clark, John C.
01lingham, James

LANGUAGE: Unavailable

FAMILY ACC, NUM, CO PATENT INFORMATION: COUNT:

APPLICATION NO. DATE 19641006 PATENT NO. DATE US 1961-112533

US 3152041 19641006 US 1961-112533 19610525 <-PRIORITY APPLM. INPO: US 1961-112533 19610525 <-DI POT diagram(a), see printed CA Issue.

AB Piperszine-bithionol (piperszine-bithionolate) (I), m. 214-15\*, having-a wider spectrum of activity against parasitic infections in a large variety of animals than either of its precursors or salts is prepared from various ratios of piperszine (II) to, bithionol (III) in acetone solution or precipitated from aqueous aikaline solution by acid. Thus, to 17.2 g. II anbydrous base in

or precipitated from aqueous alkaline solution by acid. Thus, to 17.2 g. II anhydrous base in
250 ml. acetone was added 16.6 g. III in 250 ml. acetone in 5-ml.
increments with mixing, crystals appeared at pil 10.5, and I crystallized at the end of the addition in 27-g. yield after separation and drying. It can be recrystd. from BuOH. In aqueous alkali, I had uv absorption values Biticm. maximum 236 at 327 mm; and min. 58 at 285 mm. The L.D.50 (in mice) of I, II citrate, III, and II citrate-III is, resp.: 800, 4000, 3190, 1007 mg./kg. Two cats given 10 times the normal therapeutic dose of 150 mg./lb. I as an oral suspension showed no adverse effects, and 2 of 1 cats given 10 times the therapeutic dose in capsules showed only fecal softening and very slight tranquilization. I in doses of 150 mg./lb. for

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A mixture of 10.05 g. 1-(2-methoxyphenyl)piperazine, 11.5 g. 2-(4-chlorophenyl)-2-ethoxyethyl chloride (II), and 40.0 g. Na2CO3 in 200 ml. BUOH is refluxed 24 hrs. with stirring. After separation of the inorg. material, the filtrate is evaporated and the residue distilled to give I (X - 4-Cl. R2 = Et., R1 = H, Ar = 2-MeoCSH4), bo.3 190-200°, di-HCl salt m. 229-31° (iso-Proft). II (bl.1 122-40°) is prepared by a Grignard reaction from a.16 g. Mg in 75 ml. Et2O, 76.4 g. 4-ClC6HBpr, and 48 g. ClCHeOCHOEt. Similarly are prepared the following I (X, R2, R1, Ar, b.p./mm., and m.p. di-HCl salt liated): 4-Cl, Et. H, Ph, 90-1\*/0.3, 182-5°; 3.4-Cl2. Et. H, 2-MeoCSH4, 210-20\*/0.7, 211-31° (Et2O, EtOH), 4-Cl, Et. H, 2-1CSH4, 210-20\*/0.7, 211-31° (Et2O, EtOH), 4-Cl, Et. H, Ph, 19-000\*/0.7, 191-3° (Et2O, EtOH), 3-Cl, Et. H, Ph, 19-000\*/0.7, 191-3° (Et2O, EtOH), 4-P, Et. J. MeoCSH4, 170-500\*/0.7, 191-3° (Et2O, EtOH), 4-P, Et. J. Meo. Ph, 170-500\*/0.6, 220-21° (Et2O, EtOH), 4-P, Et. J. Meo. Ph, 170-500\*/0.7, 191-3° (Et2O, EtOH), 4-P, Et. J. Meo. Ph, 170-500\*/0.7, 191-3° (Et2O, EtOH), 4-P, Et. J. Meo. Ph, 170-500\*/0.7, 191-3° (Et2O, EtOH), 4-P, Et. J. Meo. Ph, 170-500\*/0.7, 191-3° (Et2O, EtOH), 4-P, Et. J. Meo. Ph, 170-500\*/0.7, 191-3° (Et2O, EtOH), 4-P, Et. J. Meo. Ph, 170-500\*/0.7, 191-3° (Et2O, EtOH), 4-P, Et. J. Meo. Ph, 170-500\*/0.7, 191-3° (Et2O, EtOH), 4-P, Et. J. Meo. Ph, 170-500\*/0.7, 191-3° (Et2O, EtOH), 4-P, Et. J. Meo. Ph, 170-500\*/0.7, 191-3° (Et2O, EtOH), 4-P, Et. J. Meo. Ph, 170-500\*/0.7, 191-3° (Et2O, EtOH), 4-P, Et. J. Meo. Ph, 170-500\*/0.7, 191-3° (Et2O, EtOH), 4-P, Et. J. Meo. Ph, 170-500\*/0.7, 191-3° (Et2O, EtOH), 4-P, Et. J. Meo. Ph, 170-500\*/0.7, 191-3° (Et2O, EtOH), 4-P, Et. J. Meo. Ph, 170-500\*/0.7, 191-3° (Et2O, EtOH), 4-P, Et. J. Meo. Ph, 170-500\*/0.7, 191-3° (Et2O, EtOH), 4-P, Et. J. Meo. Ph, 170-500\*/0.7, 191-3° (Et2O, EtOH), 4-P, Et. J. Meo. Ph, 170-500\*/0.7, 191-3° (Et2O, EtOH), 191-3° (Et2O, Et

905-90-8 CAPLUS Piperazine, 4-(f-ethoxy-p-fluorophenethyl)-2-methyl-1-phenyl-, dihydrochloride (7CI, 8CI) (CA INDEX NAME)

●2 HCl

L9. ANSWER 123 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 1655:15362 CAPLUS
OCCUMENT NUMBER: 62:15362
OKIGITAL REPERENCE NO.: 62:2722f-h TITLE: PATENT ASSIGNEE(S):

<12/04/2007>

Brich Leese

SOURCE: DOCUMENT TYPE: LANGUAGE: 17 pp. Patent Unavailable 1 PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND - DATE APPLICATION NO.

Piperazine, 4-(B-ethoxyphenethyl)-2-methyl-1-phenyl-, dihydrochloride (7CI, 8CI) (CA INDEX NAME)

●2 HC1

853-91-8P, Piperazine, 4-(H-ethoxyphenethyl)-2-methyl-1-phenyl-, 3020-53-9P, Piperazine, 4-(H-ethoxyphenethyl)-2-methyl-1-phenyl-, hydrochloride RL: PREP (Preparation) (preparation of 653-91-8 CAPLUS Piperazine, 4-(H-ethoxyphenethyl)-2-methyl-1-phenyl- (7CI, 8CI) (CA INDEX NAWE)

<12/04/2007

Erich Leese

853-92-9 CAPLUS Piperazine, 4-(N-ethoxyphenethyl)-2-methyl-1-phenyl-, dihydrochloride (7CI, 8CI) (CA INDEX NAME)

●2 HC1

L9 ANSWER 125 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1964:425459 CAPLUS
DOCUMENT NUMBER: 61:25459
ORIGINAL REPERENCE NO: 61:4373f-h,4374a
TITLE: 0uaternary salts of 5-(4-alkylpiperazino)dihenzo[a,d]c
ycloheptadienes
INVENTOR(S): Rhome-Poulenc, S. A.
SOURCE: 15 pp.
DOCUMENT TYPE: Patent
LANGUAGE. Unavailable

Unavailable

LANGUAGE: FAMILY ACC. NUM. CO PATENT INFORMATION: COUNT:

PATENT NO. APPLICATION NO. DATE

### PATENT NO. KIND DATE APPLICATION NO. DATE

### BE 631454

DE 1197891

FR 1403619

FR (AM61)

FR (AM61)

GB 1041536

GB 1041536

GB 1041536

ML 294074

MD 293257404

PRIORITY APPLM. INFO.:

Fr 19660621

US 1963-285859

1960066 <--
FR 19620615

FR 19620615

FR 19620615

FR 19620615

FR 19620615

FR 19620615

GI For diagram(s), see printed CA Issue.

AS 5-(4-Alkyl)piperazinol dibenzole, d)cycloheptadienes (I) were converted to quaternary salts (II) with M62804. These compds, showed spasmolytic, ganglioplegic, and atropinic activities more pronounced than the corresponding I. 5-Chlorodibenzole, d)cycloheptadiene (Mychaj)yszyn and Protiva, CA 54, 4766a) [9,14,9,] in 130 cc. anhydrous PhMe was refluxed 4 h. with 8.00 g. 1-methylpiperazine in 30 cc. PhMe, the reaction mixture treated with 120 cc. water, 80 cc. Et20, and 5 cc. aqueous NAOH (d. 1,33), the water layer washed with 100 cc. Et20, the combined organic layers extracted 3 times with a total 140 cc. NAOH, the acid exts. Mashed with 150 cc. Et20 and basified with 50 cc. aqueous NAOH (d. 1,33) che water layer vashed with 150 cc. Et20, and broombined Et20 exts.

dried over K2CO3 and evaporated to yield 6.45 g. I (R = Me) (III), m.

3020-53-9 CAPLUS
Piperszine, 4-(h-ethoxyphenethyl)-2-methyl-1-phenyl-,
monohydrochloride (8CI) (CA INDEX NAME)

● HC1

L9 ANSWER 124 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1965:15361 CAPLUS
ORIGINAL REPREEMENCE NO.: 62:27326-f
TITLE: Disopropylamine orotate
MABUSAWA, Kuniyasu, Irikura, Tsutomu
Kyorin Pharmaceutical Co., Ltd.
1 p.
DCCUMENT TYPE: Petent
Unavallable

Unavailable LANGUAGE

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

DATE DATE 

<12/04/2007>

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111° (iso-PrOH). To 9.9 g, III in 200 cc. anhydrous Me2CO was added dropwise in 10 min. 4.3 g. Me2SO4 in 10 cc. anhydrous Me2CO, the temperature of the control of the con dropwise in 10 min. 4.3 g. Mc2SO4 in 10 cc. annyarous Mc2CO, the temperaturs of the mixture was cooled to room temperature in 3 h. to yield 11.9 g. II (R \* Mc), m. 190-3\*. washed twice with a total 70 cc. anhydrous Mc2CO. Similarly prepared were the following homologs (R, m.p. of I, and m.p. of II given): Et. 90\*, 168-70\*, Pr. 84\*. 201-3\*, Bu, 78\*, 207-9\*, HOCH2CH2, 192\*. 144-6\*, PhCH2, 120-1\*, 218-22\*, 160-Pc, 87\*. 201-3\*, clnnamyl, 142\*, 214-16\*, PhCH2CH2. 199\*. 100\*. 160-70\*, HOCH2CH2CH2CH2. - (di-HCl salt m. 170\*), 150\*. 94437\*-01-19, 1-Piperazinecthanol. 3-methyl-α,4-diphenyl-RL: PREP (Preparation) (preparation) (preparation) (97437\*-01-11 CAPLUS 1-Piperazinecthanol, 3-methyl-α,4-diphenyl- (7CI) (CA INDEX NAME)

L9 ANSWER 126 OF 134 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1964:425458 CAPLUS
OCCUMENT NUMBER: 61:25458
ORIGINAL REFERENCE NO: 51:25458
INVENTOR(S): 2-(4-Phenylpiperazino)-1-phenylethyl acetates
Shapiro, Seymour L., Preedman, Louis, Soloway, Harold
U.S. Vitamin 4 Pharmaceutical Corp.
4 pp.
DOCUMENT TYPE: 4 pr.
LANGUAGE: U.S. Vitamin 4 Pharmaceutical Corp.
4 pp.
Namily Acc. NUM, COUNT: 1

SOURCE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM, COUNT: PATENT INFORMATION:

<12/04/2007>

APPLICATION NO. PATENT NO. KIND DATE US 3135756 19640602 19610517 <--

US 3)15756 19640602 US 19610517 --PRIORITY APPLM. INFO: US 19610517 --GI For diagram(s), see printed CA Issue.

AB The title eaters are prepared and can be used as bronchodilators. Thus, a solution of 17.8 g. 1-phenylpiperazine in 35 ml. iso-PrOH is added to a mixture of 28 g. p-c1C614CCCH2Br in 65 ml. iso-PrOH and the mixture refluxed 15 min. to give sit 1-(p-chlorophenacyl)-4-phenylpiperazine-HBr (I.HBr), m. 242-4\* (decomposition) (MeOH), which is treated with NaOH to give I, m. 132-3\* (EtOH). A mixture of 1.9 g. I in 100 ml. EtOH is treated with 6.55 g. NaBH4 to give S88 2-(4-phenylpiperazino)-1-(p-chlorophenyl)ethanol (II), m. 154-5\* (EtOH). A mixture of 3.2 g. II,

<12/04/2007>

97437-01-1P, 1-Piperazineethanol, 3-methyl-a,4-diphenyl-97018-29-6P, 1-Piperazineethanol, 3-methyl-a,4-diphenyl-, acetate (ester) RL: PREP (Preparation)

(preparation of)
94437-0-1 CAPUS
1-Piperazineethanol, 3-methyl-a,4-diphenyl- (7Cl) (CA INDEX NAME)

97018-29-6 CAPLUS 1-Piperazineethanol, 3-methyl-a,4-diphenyl-, acetate (7CI) (CA

c12/04/2007s

Erich Leese

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SOURCE DOCUMENT TYPE:

L9 ANSWER 128 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION INUMEER: 1964:52796 CAPLUS
OCIUMENT NUMEER: 60:52796
ORIGINAL REFERENCE NO: 60:9293g-h, 9294a-h, 9295a-h, 9296a-b
TITLE: PATENT ASSIGNEE(S): Sterling Drug Inc. 41 pp.

LANGUAGE: PAMILY ACC, NUM, COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO.

PATENT NO. KIND DATE APPLICATION NO. DATE

OB 944443

19631211 OB

US 3188313 19630218 US 1959-842203 19590925 <-
OB 70 diagram(s), see printed CA Issue.

AB Compds. of type I and II, in which R1 is H, halogen, alkyl, alkoxy, or aryl, R2 is H, alkyl, hydroxyalkyl, or aryl, R3 and R4 is H, alkyl, or aryl, R3 is H, alkyl, hydroxyalkyl, or aryl, R3 and R4 is H, alkyl, or aryl, R3 is H, alkyl, hydroxyalkyl, or aryl, R3 and R4 is H, alkyl, or aryl, R3 is H, or anyl, R3 is H, alkyl, or aryl, R3 and R4 is H, alkyl, and R4 is H, alkyl, R4 is H, R4

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L9 ANSWER 127 OF 134
ACCESSION NUMBER: 1564:52797 CAPLUS
COCUMENT NUMBER: 60:52797
ORIGINAL REFERENCE NO.: 60:9296b-d
Aminochloro heterocyclic compds.
INVENTOR(S): Heins Wellenreuther, Gerhard, Eilingsfeld, Heins

PATENT ASSIGNEE (S) : Badische Anilin- & Soda-Pabrik A.-G.

19 pp. DOCUMENT TYPE: ANGUAGE Unavailable

PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. DATE PR 1342841 19631115 PR 1962-909333 19620913 <-DE 1172266 DE
GB 1011994 GB
PRIORITY APPLM. INFO.: DE 19610913
GI For diagram(s), see printed CA Issue.
AB The new compds. were used as intermediates in the manufacture of dyes. A

containing 100 parts by weight 2-(4-nitrophenyl)-4-chloroquinazoline suspended

containing 100 parts by weight 2-(4-nitrophenyl)-4-chloroquinazoline suspende 100 parts by volume Me2CO, 10 parts Raney Ni, and 3 parts by volume Pr3N was hydrogenated at normal pressure at 20-30° to yield 83 parts I (R = H, RI = H, RI = P-C6H4NI2). Similarly prepared were 85 parts I (R = H, RI = M-C6H4NI2) from 100 parts 2-(3-nitrophenyl)-4-chloroquinazoline, and 85 parts I (R = NN2, RI = Ph) from 100 parts 2-phonyl-4-chloro-6-nitroquinazoline. A labo prepared were the following II (R and RI given); morpholino, m-C6H4-NH2; morpholino, m-C6H4-NH2; morpholino, m-C6H4-NH2; morpholino, m-C6H4-NH2; morpholino, p-H2NC6H4NH; morpholino, p-O2NC6H4NH, 197-9°; morpholino, p-H2NC6H4NH; morpholino, p-O2NC6H4NH; 255-7°.
94961-31-6
(Derived trom data in the 7th Collective Formula Index (1962-1966)) 94961-31-6 CAPLUS
Indole, 3-(2-(3-methyl-4-phenyl-1-piperazinyl)ethyl)- (7CI) (CA INDEX NAME)

<12/04/2007>

Brich Leese

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120 ml. ACOET aind 25 ml. ACOH, and the solid collected, to give 41.5 g. III (R1 = R3 = R4 = H, R2 = o-toly1) (X). Similarly prepared were these III (R3 = R4 = H, R1, R2, and m.p. given): H, Me. --, H, HOCHICH2, --, H, m-toly1, --, H, 2-MCOCGH4, -24.5 sp. II, 3.4-CIMcCGH3, 211-14\*, 6-McO, Ph. 205-9\*, 6-McO, o-toly1, 247-50\*, 6-McO, a-toly1, 205-8\*, 6-McO, p-toly1, 196-8\*, 6-McO, 2-McOCGH4, 246-8\*, 6-McO, 4-McOCGH4, 205-10\*, 5-McMB, Ph. 211-13\*, 56-CIMC202), Ph. 267-9\*, 5-McMB, Ph. PhCHIZO, Ph. 211-13\*, 56-CIMC202), Ph. 267-9\*, 5.6-(CH202), D-toly1, 211-13\*, 56-CIMC202), Ph. 267-9\*, 5.6-(CH202), D-toly1, 211-13\*, 56-(CH202), Ph. 267-9\*, 5.6-(CH202), D-toly1, 211-14\*, 56-(CH202), Ph. 267-9\*, 5.6-(McO)2, Ph. 256-8\*, 8\*, 5.6-(McO)2, D-toly1, 211-16\*, 56-(McO)2, Ph. 256-8\*, 8\*, 5.6-(McO)2, D-toly1, 211-16\*, 56-(McO)2, Ph. 256-8\*, 8\*, 5.6-(McO)2, D-toly1, 211-16\*, 56-(McO)2, Ph. 256-8\*, 8\*, 5.6-(McO)2, 3-McCCGH4, 214-46.4\*, 56-(McO)2, 4-MCCGH4, 218-22\*, 5.6-(McO)2, 3-McCCGH4, 214-46.4\*, 56-(McO)2, 4-MCCGH4, 228-36\*, 56-(McO)2, 3-McCCGH4, 214-23\*, 4-McO, Rh. -5-McO, Ph. 224-73\*, 7-McO, 242-23\*, 7-McO, 242-23

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o-tolyl, -- (HCl salt m. 218.4-23.4°); 5.6-(MeO)2, m-tolyl, 118.4-19.6°; 5.6-(MeO)2, p-tolyl, 137.6-9.2°; 5.6-(MeO)2, 2-MeOC6H4, 116.0-16.6°; 5.6-(MeO)2, 3-MeOC6H4, 123.0-4.0°; 5.6-(MeO)2, 4-MeOC6H4, 158.8-6.4°, 5.6-(MeO)2, 4-MeOC6H4, 158.8-6.4°, 5.6-(MeO)2, 4-MeOC6H4, 158.8-6.4°, 5.6-(MeO)2, 4-MeOC6H4, 158.8-6.4°, 5.6-(MeO)2, 4-MeOC6H4, 168.8-6.4°, 5.6-(MeO)2, 4-MeOC6H4, 168.8-6.4°, 5.6-(MeO), ph. 130.0-5.2°; H. 2-pyridyl, -- (HCl salt m. 232.2-4.4°), 4-MeO, ph. 177.2-82.2°; 5-MeO, ph. 147.4-50.0°; 7-MeO, ph. 122.0-5.2°; 6-MeO, 2-CICGH4, 174.2-5.2°; 6-ECO, ph. 159.6-63.2°; 6-MeO, 2-CICGH4, 125.2-8.8°; 6-MeO, 3-CICGH4, 103.6-4.4°; 6-MeO, 3-MeOC6H4, 142.0-4.6°; 6-MeO, 2-CICGH4, 103.6-4.4°; 6-MeO, 3-MeOC6H4, 142.0-4.6°; 6-MeO, 2-CICGH4, 193.6-1.4°; 6-MeO, 2-CICGH4, 193.2-30.6°; 5.6-(MeO)2, 2-pyridyl -- (HCl salt m. 121.8-8.6°; 5.6-(MeO)2, 2-pyridyl -- (HCl salt m. 121.8-9.6°; 2-MeOC6H4, 182.4-4.6°; 5.6-(CH2O2), 2-MeOC6H4, 182.4-5.6°; 5.6-(MeO)2, 2-S-(MeO)2, 2-MeOC6H4, 182.4-4.6°; 5.6-(CH2O2), 2-MeOC6H4, 182.4-4.6°; 5.6-(CH2O2), 2-MeOC6H4, 182.4-6°; 5.6-(MeO)2, 2-MeOC6H4, 184.1-

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L9 ANSHER 129 OP 134 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 1964;31020 CAPLUS
DOCUMENT NUMBER: 60:31020
ORIGINAL REPREZENCE NO: 60:5521f-h,5522a-h,5523a
NPHenylpiperazines
Maxwell, Donald R. Wragg, William R.
PATENT ASSIGNEE(S): Maxwell, Donald R. Wragg, William R.
SOURCE: Maxwell, Donald R. Wragg, William R.
12 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable

PATENT NO.

<12/04/2007>

KIND DATE APPLICATION NO. DATE PATENT NO. KIND DATE APPLICATION NO. DATE

OB 943739 19611204 GB 1959-9936 19590320 <-PRIORITY APPLM. INFO.:

AB p-02N C6H4CH2CH2R (11.5 g.), 16.2 g. N-phenylpiperazine (I), and 150 cc. CHCl3 refluxed 24 hrs. gave 1a (R = p-02NC6H4CH2CH2, R1 = H), m. 140-1\* (CHCl3-EtOH), which was hydrogenated over Pt. 2 to give the p-amino analog, di-HCl salt (II) m. 314-17\*. Treating the base of II with Ac20 gave the p-acetamido analog, m. 205-8\*; isethionate m. 180-2\*\*. Similarly were prepared the following 1a (R, Rt. \* y-leid, and m.p. given): p-AcNNC6H4CH2CH2, m-Cl, 57, 174-65, p-02NC6H4CH2CH2, o-Cl. 68, 108-10\*\*, p-H2NC6H4CH2CH3 o-Cl. 52, -(di-HCl salt m. 306-9\*); p-02NC6H4CH2CH2, m-Cl. 57, 174-65, p-02NC6H4CH2CH2, o-Cl. 61, 618-10\*\*, p-H2NC6H4CH2CH2, o-Cl. 52, -(di-HCl salt m. 306-9\*); p-02NC6H4CH2CH2, m-Cl. 52, -(di-HCl salt m. 306-9\*); p-02NC6H4CH2CH2, m-Cl. 52, -(di-HCl salt m. 35\*\*) decomposition); p-HNCHCH2CH2CH2, p-Cl. 61, -(di-HCl salt m. 35\*\* (decomposition); p-HNCH2CH2CH2, m-Cl (III), 67, 147-50\*, p-OHCNMc6H4CH2CH2, m-Cl (B), -MCH2CH4CH2CH2CH2, m-Cl (III), 67, 147-50\*, p-OHCNMc6H4CH2CH2, m-Cl (III), 67, 147-50\*, p-OHCNMc6H4CH2CH2, m-Cl (III), 67, 147-50\*, p-OHCNMc6H4CH2CH2, m-R), GB 1959-9836 GB 19631204 19590320 <--GB 943739

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and the mixture kept 1.7 hrs. at room temperature to yield 5.4 g. V(R1, R2 .

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o-Cl), m. 113-14\*. IA (R = p-H2MCORNCSH4CH2CH2, R1 = H), m. 315-18\*, was obtained in 42\* yield by refluxing an aqueous solution of NacNo and II. Refluxing p-nitrostyrene bromohydrin and I in toluene gave 57\* d1-Ia fR = p-02\*CSCH4CH(0RIOLE, R1 = H), m. 167-8\*, reduced catalytically to 80\* the amino analog, m. 144-5\*. I and p-MoO3SMICGH4CH2CH2R, m. 104-5\*, from MeoDSCI and p-aminophenethyl bromide, was refluxed to give 63\* Ia (R = p-MeoDSGNICGH4CH2CH2, R1 = H), m. 153-5\*. III in textrahydrofuran was added to LiAlH4, and the mixture refluxed to give 83\* Ia (R = p-MeNICGH4CH2CH2R, m. 107-11\*, from p-H2NCGH4CH2CH2R and pr-FICCONNICGH4CH2CH2R, m. 107-11\*. from p-H2NCGH4CH2CH2R and pr-FICCONNICGH4CH2CH2R, m. 107-11\*. from p-H2NCGH4CH2CH2R and trifluoroacetic anhydride, gave 40\* Ia (R = p-FICCONNICGH4CH2CH2R, m. 107-11\*). and diethanolamine was treated with HBr, the mixture heated to 180-90\*, and H3O distilled to give 30\* N\* p-fluorophenylpiperazine. bo: 118-23\*, which was converted into Ia (R = p-O3NCGH4CH2CH2, R1 = p-p), m. 127-9\*. This, when hydrogenated, gave 57\* the amino analog; HCl salt m. 280-4\*. Prepared similarly were 47\*
N-m-fluorophenylpiperazine-HBr, m. 232-5\*, 34\* Ia (R = p-O3NCGH4CH2CH2, R1 = p-O3NCGH4CH2CH2, R1 = m-F), m. 118-20\*, and 62\* the p-H2N analog as HCl salt, m. 282-5\*. Ethylene oxide was treated with m-anisdine to the state of the state of the state of the p-H2N analog as HCl salt, m. 285-8\*. Similarly prepared were 77\*
N.N-bis(B-chloroethyl)-o-fluoroethyl)-m-anisdine as an oil. This when added to a mixture of p-nitrophenethylman-HCl and anhydrous Na2CO3 in Buois and refluxed gave 54\* Ia (R = p-O2NCGH4CH2CH2, R1 = m-Br), m. 238-41\*, Ia Jalci (R = p-H3NCGH4CH2CH2, R1 = m-Br), m. 238-41\*, Ia Jalci (R = p-H3NCGH4CH2CH2, R1 = m-Br), m. 238-41\*, Ia Jalci (R = p-H3NCGH4CH2CH2, R1 = m-Br), m. 238-41\*, Ia Jalci (R = p-H3NCGH4CH2CH2, R1 = m-Br), m. 238-41\*, Ia Jalci (R = p-H3NCGH4CH2CH2, R1 = m-Br), m. 256-7\*, 63\* Ia (R = p-O3NCGH4CH3CH2, R1 = m-Br), m. 256-7\*, 63\* Ia (R = p-D3NCGH4CH3CH2, R1 = 2,3-C12

<12/04/2007> Erich Leese 138 1a (R \* p-AcNICGH4CO(CH2)3, R1 \* H), m. 172-4\*, 63\*
4-(m-nitro-p-fluorophenyl)-4-oxobutyl chloride, m. 63-4\*, Ia [R \* 4,3-P(R2N)CGH2CO(CH2)3, R1 \* H], m. 110-12\*, 16\* Ia [R \* 4,3-P(R2N)CGH2CO(CH2)3, R1 \* H], m. 147-50\*, 76\*,
dl-N([6-hydroxyethyl)-N-(h-hydroxypropyl)aniline, b0.15
135-42\* 26\*, dl-1-[2-(p-nitrophenyl)ethyl]-2-methyl-4phenylpiperazine', m. 82-4\*, and 75\* dl-1-[2-(p-aminophenyl)ethyl]2-methyl-4-(p-hydropiperazine-HC1, m. 247-50\*. These compds. had
pharmacological and psychotropic properties.
94915-72-77. Piperazine, 2-methyl-4-(p-nitrophenethyl)-1-phenyl100175-11-9P, Piperazine, 2-methyl-4-(p-nitrophenethyl)-2-methyl-1-phenylNydrochloride
RL: PREF (Preparation)
(preparation of)
94515-72-7 CAPLUS
Piperazine, 2-methyl-4-(p-nitrophenethyl)-1-phenyl(7CI) (CA INDEX NAME)

100175-11-9 CAPLUS Piperazine. 4-(p-aminophenethyl)-2-methyl-1-phenyl-, hydrochloride (7CI) (CA IMDEX NAME)

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CH- CH2- CH2

745-60-8 CAPLUS 4-(3-ethoxy-3-phenylpropyl)-2-methyl-1-phenyl- (7CI, 8CI) (CA Piperazine, INDEX NAME)

748-03-8 CAPLUS
Piperazine, 4-(3-isopropoxy-3-p-tolylpropyl)-2-methyl-1-phenyl- (7CI, 8CI)
(CA INDEX NAME)

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•x HCl

PATENT NO.

L9 ANSWER 130 OF 134 ACCESSION NUMBER: DOCUMENT, NUMBER: CAPLUS COPYRIGHT 2007 ACS ON STN 1964:9840 CAPLUS 60:9840 60:1774f-h ORIGINAL REFERENCE NO. : Piperazine TITLE:
INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
PAMILY ACC. NUM. COUNT:
PATENT INFORMATION: Piperazines Stevens, Ge CIBA Ltd. 31 pp. Patent Unavailable George de; Mull, Robert P.

> KIND DATE

PATENT NO. KIND DATE APPLICATION NO. DATE

BE 615259 19520919 BE <-FR 1332560 PR
GB 995036 OB
PRIORITY APPLIN. INFO:

GB 995036 OB
PRIORITY APPLIN. INFO:

GB 95036 OB
The title compds. (I) and their salts are valuable pharmacouticals, especially vasodiators and diagnostic agents of low toxicity. They have adrenolytic properties. 2-Methyl-1-phenylpiperazine (8.8 g.) was dissolved in 50 cc.

PhMe. 2.4 g. 533 suspension of Nail in mineral oil added, the mixture refluxed 2 hrs... 11.6 g. 5-ethoxy-3-(4-methylphenyl)propyl chloride added, the mixture refluxed overnight and filtered, and the filtrate evaporated in vacuo and distilled to give I (Ar = 4-MecCBHA, R = Et, RI = Me, X = Phl, b0.2 182-4°, di-HCl salt m. 190-2° (EtCBH). Similarly, the following I were prepared (Ar, R, RI, X, b.p./mm., and m.p. of di-HCl salt given): Ph. Et., Me, Ph. 16-70-70-0.05. 184°, 4-MecCBHA, Me, Ph. 17087-0.05, 184°, 4-MecCBHA, iso-Pr. Me, Ph. 16-54°/0.05 185°, Ph. Et., H. Ph. 160°/0.15, 202-3° (EtCH-Et2O); 4-clCGH4, Me, HP, 178-80°/0.1,212-

<12/04/2007>

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APPLICATION NO.

10/513699

RN CN CAPLUS

Piperazine, 4-[3-(p-chlorophenyl)-3-methoxypropyl]-2-methyl-1-phenyl-(8CI) (CA INDEX NAME)

907-68-6 CAPLUS
Piperazine, 4-(3-ethoxy-3-p-tolylpropyl)-2-methyl-1-phenyl-,
dihydrochloride (7CI, 8CI) (CA INDEX NAME)

●2 HC1

CAPLUS Piperazine, 4-[3-(p-chlorophenyl)-3-methoxypropyl]-2-methyl-1-phenyl-, dihydrochloride (7CI, 8CI) (CA INDEX NAME)

●2 HC1

1051-75-8 CAPLUS
Piperazine, 4-(3-(p-chlorophenyl)-3-ethoxypropyl)-2-methyl-1-phenyl(7CI, 6CI) (CA INDEX NAME)

1051-76-9 CAPLUS Piperazine, 4-[3-(p-chlorophenyl)-3-ethoxypropyl]-2-methyl-1-phenyl-, dihydrochloride (7C1, 8C1) (CA INDEX NAME)

1168-17-8 CAPLUS
Piperazine, 4-(3-ethoxy-3-phenylpropyl)-2-methyl-1-phenyl-,
dihydrochloride (7CI, 8CI) (CA INDEX NAME)

●2 HC1

3792-38-9 CAPLUS Piperazine, 4-(3-isopropoxy-3-p-tolylpropyl)-2-methyl-1-phenyl-, dihydrochloride (7CI, 8CI) (CA INDEX NAME)

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97018-75-2 CAPLUS . Piperazine, 1-phenyl-2-[2-(4-pyridyl)ethyl]- (7CI) (CA INDEX NAME)

L9 ANSWER 132 OF 134 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 1963:6735 CAPLUS DOCUMENT NUMBER: 58:6735 CAPLUS 58:1086c-e

58:1086c-e Two-component diazotype layers Kalle A.-G. 9 pp. Pacent Unavailable 1 TITLE: PATENT ASSIGNEE(S):

SOURCE: DOCUMENT TYPE: LANGUAGE:

PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. APPLICATION NO.
BE
DE
DE
DB DATE

Erich Leese

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●2 HC1

L9 ANSWER 131 OF 134 ACCESSION NUMBER: DOCUMENT NUMBER: ORIGINAL REPERENCE NO.; CAPLUS COPYRIGHT 2007 ACS on STN 1963:462412 CAPLUS 59:62412

59:62412
59:11521a-c
N-Aryl-N'-(2-pyridylethyl)piperazines
Boissier, Jacques R., Ratouis, Roger
Societe Industrielle pour la Pabrication des
Antibiotiques (S.I.F.A.)
11 pp.
Patent
Unavailable 1 TITLE: INVENTOR(S): PATENT ASSIGNEE(S):

SOURCE: DOCUMENT TYPE: LANGUAGE: PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

APPLICATION NO. PATENT NO. KIND DATE DATE

PATENT NO. KIND DATE APPLICATION NO. DATE

PR M1769

PRIORITY APPLN. INFO:

OTHER SOURCE(S):

MARPAT 59;62412

AB N-Arylpiperazines are treated with vinylpyridines in the presence of hydroquinone or tert-butyl-pyrocatechol (I) to give the title compds. which can be used in the treatment of hypertension. Thus, a mixture of 10.5 g. 2-vinyl-pyridine. 18 g. N-phenylpiperazine, and 10 mg, I is heated at 150° for 2 hrs., cooled, the unreacted starting materials distilled under 0.55-0.2 mm. at a hath temperature of 180-200°, and the residue re-crystallized in 400 ml. petr. ether to give 14 g.

N-12 (-2-pyridyl)-ethyl]-N'
phenylpiperazine, m. 55°, 534 yield. Similarly prepared are (m.p. given) N-12-(4-pyridyl)ethyl]-N'-phenyl-piperazine, 83° (petr. ether), N-12-(4-pyridyl)ethyl]-N'-(2-pyridyl)piperazine, 69° (heptane), N-12-(4-pyridyl)ethyl]-N'-(2-pyridyl)piperazine, 82° (60% aqueous EtON); N-12-(2-pyridyl) ethyl]-N'-(2-chlorophenyl)piperazine, 66° (heptane), N-12-(2-pyridyl)ethyl]-N'-(2-chlorophenyl)piperazine, 68° (hexane), N-12-(4-pyridyl)ethyl]-N'-(2-methoxyphenyl)piperazine, 78° (hexane), N-12-(4-pyridyl)ethyl]-N'-(2-ehoxyphenyl)piperazine, 68° (hexane), N-12-(4-pyridyl)ethyl]-N'-(2-ehoxyphenyl)piperazine, 68° (hexane), N-12-(4-pyridyl)ethyl]-N'-(2-p

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(CA INDEX NAME

•x HCl

L9 ANSWER 133 OF 134 CAPLUS COPYRIGHT 2007 AC8 on STN
ACCESSION NUMBER: 1961:28013 CAPLUS
ORIGINAL REPERENCE NO.: 55:5549c-i.5550a-i.5551a-g
TITLE: INVENTOR(6): January 1-Arylalky1-4-aryl piperazines
DOCUMENT TYPE: Patent
Unavailable
Unavailable

PAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. DATE KIND APPLICATION NO. 19600415

BE 589092 DE 1185615 GB 872352 BB DE OB

DE 183515

OB 872352

OB 1-(y-Benzoylpropyl)-4-phenylpiperazine, m. 89-90\* (6:5)

180-PrOH-HZO), was prepared by reaction of 7.5 g. chlorobutyrophenone and 13.4 g. 1-phenylpiperazine 6 hrs. at room temperature and 4 hrs. at 105-10\*, after cooling, 200 g. EtO was added, the solution dried and evaporated, the residue dissolved in hot 4:1 70\* EtOH-EtOO, and precipitated on cooling. The following 1-(arylalkyl)piperazines (1-arylalkyl - y-benzoylpropyl) were thus prepd (4-aryl group and m.p. given): 3-fluorophenyl, 80.2-1.6\* (iso-ProHzO), 3-chlorophenyl, 80.2-1.6\* (iso-ProHzO), 40-floorophenyl, 80.2-1.6\* (iso-ProHzO), 4-floorophenyl, 80.2-1.6\* (iso-ProHzO), 4-floorophenyl, 80.2-1.6\* (iso-ProHzO), 2-floorophenyl, (di-HCl salt), 20.2-1.2\* (sid-HzO), 2-floorophenyl, (di-HCl salt), 20.2-1.6\* (iso-ProHz), 3-floorophenyl, (di-HCl salt), 20.2-1.6\* (iso-ProHz), 3-floorophenyl, (di-HCl salt), 198-200\*, 4-floorophenyl, (di-HCl salt), 20.2-1.6\* (acetone-iso-PrOH), 3-chlorophenyl, (HCl salt), 198-200\*, 4-floorophenyl, (di-HCl salt), 2-floorophenyl, (di-HCl salt), 2-floorophenyl,

210-13° (decomposition), 4-tolyl, 99-101° (iso-PrOH-H2O); 2(5-xylyl) (di-HCl salt), 237.5-9.5°, 2-anisyl, 67.5-8.5° (iso-PrOH) (di-HCl salt), 237.5-9.5°, 4-anisyl, 104.6-5.5° (iso-PrOH); 5-methyl-2-pyridyl, 22-3°, 4-methyl-2-pyridyl (di-HCl sit), 23-3°, 4-methyl-2-pyridyl (di-HCl sit), 23-3°, 4-methyl-2-pyridyl, 15-20°, 1-1y-(4-chlorobentoyl)propyl)piperazines; Ph. 13.5-14.5°, 3-chlorophenyl, 86-8°, 3-tolyl, 99.6-110.4°, 4-tolyl, 129.5-30.5°, 4-anisyl, 126.6-7.8°, 4-fluorophenyl, 127-8.5°, 2-pyridyl, 82.5-4.4°, 1-1y-(4-Mchylbenzoyl)propyl)piperazines; Ph. 103-4.8°; 2-chlorophenyl, 106-7°, 3-chlorophenyl, 124.5-5.5°, 4-chlorophenyl, 106-6°, 3-chlorophenyl, 123.2-4°, 1-1y-(2-Dimethylbenzoyl)propyl)piperazines; Ph. 103-4.8°; 2-chlorophenyl, 106-6°, 4-chlorophenyl, 109-6°, 4-chlorophenyl, 10

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analogs. 4-Ph. 93.5-5\*, 4-(3-chlorophenyl), 84-5\*;
4-(4-chlorophenyl), 112-3\*, 4-(3-chlorophenyl), 93-4-5\*,
1-(4-Anisyl) analogs. 4-Ph. 104.2-7.2\*, 4-(2-chlorophenyl),
106.8-8.4\*, 4-(3-chlor)l, 115.5-2.1.5\*, 4-(4-chloryl),
109.5-10.2\*, 1-(4-Ethoxyphenyl) analogs: 4-Ph. 113-14.8\*,
1-(2-Thienyl) analogs. 4-Ph. 91.4-3\*, 4-(3-chlorophenyl),
4-(4-chlorophenyl), 109.2-10\*, 4-(2-chlorophenyl),
85.5-7.5\*, 4-(3-chlorophenyl), 81.5\*, 4-(2-cypridyl),
85.5-7.5\*, 4-(3-chlorophenyl), 81.5\*, 4-(2-chlorophenyl),
85.5-7.5\*, 4-(3-chlorophenyl), 81.5\*, 4-(2-chlorophenyl),
85.5-7.5\*, 4-(3-chlorophenyl), 81.5\*, 4-(2-chlorophenyl),
85.5-7.5\*, 4-(3-chlorophenyl), 81.5\*, 4-(2-chlorophenyl),
85.5-7.5\*, 4-(3-chlorophenyl), 81.5\*, 4-(2-chlorophenyl).
86.6-7.5\*, 4-(3-chlorophenyl), 97.6-9-4\*, 1-Phenyl-5-(4-(3-chlorophenzinyl))-i-pentanol, m. 107.4-9.2\*, were also prepared
1-[y-(4-Anisoyl)propyl)-4-(6-methyl-2-pyridyl)piperazine, m.
74-6\*, was prepared by heating 8 hrs. at 110\* 6.2 g,
y-chloro-4-methoxybutyrophenone and 8.9 g, 1-(6-methyl-thio-3-pyridazinyl)piperazine. m. 124-5\*, was prepared by heating in a sealed tube 48 hrs. at 140-50\*, 14-8 g, 1-(methyl-thio-2-pyridazinyl)piperazine. m. 124-5\*, was prepared by heating in a benoxylpropyll-piperazine. M. (4-Tolylsulfonyl)-N-(6-hydroxyethyl)-N

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61.5-4\*, 2-(4-methylthiazolyl) (di-HCl salt), 186-8\*, 2-(3.4-thiadiazolyl), 59-64\*, 2-(5-methyl-1,3,4-thiadiazolyl), 59-64\*, 2-(5-methyl-1,3,4-thiadiazolyl), 98-8100.2\*. 1-(y-Benzoylpropyl)-4-(4-fluorophenyl)piperazine di-HCl salt, m. 214.5-17\* (1:2:2 acetone-iso-PrOH-MeOH), was prepared by heating in a sealed tube 72 hrs. at 145-50\* 9.1 g. y-chlorobutyrophenone, 23 g. 1-(4-fluorophenyl)piperazine, and 0.1 g. KT, extracting the cooled mixture with H20 and Et20, and treating the dried organic layer with dry HCl, the base was liberated in aqueous alkaline ion, m. y-chlorobutyrophenone, 23 g. 1-(4-fluorophenyl)piperazine, and 0.1 g. KI, extracting the cooled mixture with H2O and Et2O, and treating the dried organic layer with dry HCl; the base was liberated in aqueous alkaline solution, m.

104-5.5° (EtOH). 1-[y-(4-Anisoyl)propyl)-4-phenylpiperazine, m. 126.6-7.5°, and the corresponding 4-fluorophenyl derivative, m. 121.2-1.8°, 1-[y-(2-thenoyl)propyl)-4-phenylpiperazine-ZHCl, decomposed at 203-5°, and the 4-fluorophenyl analog, m. 82.5-3°, were similarly prepared 1-[y-(4-Pluorobenzoyl)propyl]-4-(3-methyl-2-pyridyl)piperazine-HCl, m. 212-20° (iso-Pr2O), was prepared from 4.4 g. y-chloro-4-fluorobutyrophenone and 7.8 g. 1-(3-methyl-2-pyridyl)piperazine in 12 oc. C686 in a sealed tube at 125-72 a hrs. The following derivative in 12 oc. C686 in a sealed tube at 125-72 a hrs. The following derivative in 12 oc. C686 in a sealed tube at 125-72 a hrs. The following derivative in 12 oc. C686 in a sealed fube at 125-72 a hrs. The following derivative in 12 oc. C686 in a sealed fube at 125-72 a hrs. The following derivative in 12 oc. C686 in a sealed fube at 125-72 a hrs. The following derivative in 12 oc. C686 in a sealed fube at 125-72 a hrs. The following derivative in 12 oc. C686 in a sealed fube at 125-72 a hrs. The following derivative in 12 oc. C686 in a sealed fube at 125-72 a hrs. The following derivative in 12 oc. C686 in a sealed fube at 125-72 a hrs. The following in 125-72 bridge in 125-73 bridge in 125-73 bridge in 125-73 bridge in 125-73 bridge in 125-74 bridge in 125-73 bridge in 125-74 bridge in 12 residue was treated with aqueous arkail solution, extracted with state with state with state with state with state with state and state with state and state with state and state with state and state with state with state and state with state and state with state w

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2946-76-1 CAPLUS Piperazine, 2-methyl-1-phenyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

102758-21-4 CAPLUS
Butyrophenone, 4'-methoxy-4-(3-methyl-4-phenyl-1-piperazinyl)- (6CI) (CA Butyrophenone, INDEX NAME)

108983-89-7 CAPLUS
1-Butanone, 4-(3-methyl-4-phenyl-1-piperazinyl)-1-(2-thienyl)-,
dipdrochioride (6CI) (CA INDEX NAME)

●2 HC1

110531-91-4 CAPLUS Butyrophenone, 4-(3-methyl-4-phenyl-1-piperazinyl)-, dihydrochloride (6CI) (CA INDER NAME)

DOCUMENT TYPE:

L9 ANSMER 134 OF 134
ACCESSION NUMBER: 1955;36037 CAPLUS
ODCUMENT NUMBER: 49:56037 CAPLUS
ORIGINAL REFERENCE NO: 49:6967e-i,6968a-b
Derivatives of piperazine. XXIV. Synthesis of 1-arylpiperazines and amino alcohol derivatives
CORPORATE SOURCE: Journal of the American Chemical Society (1954), 76. 1853-5
CODEN: JACSAT, ISSN: 0002-7863
JOURNAL JOURNAL

NEE: Journal of the American Chemical Society (1998), 76, 183-5
CODEN: JACSAT: ISSN: 0002-7863
UMENT TYPE: Unavailable
of. A. 48, 7615a. A series of 8 1-arylpiperazines (I) have been prepared
of. A. 48, 7615a. A series of 8 1-arylpiperazines (I) have been prepared
of. A. 48, 7615a. A series of 8 1-arylpiperazines (I) have been prepared
of. A series of 8 1-arylpiperazines (I) have been prepared
of. A series of 8 1-arylpiperazines (I) have been prepared
of. A series of 8 1-arylpiperazines (II) have been prepared
of. A series of 8 1-arylpiperazine (III)

J-mcLorenty propylene oxide (III) Acco. Bscl. and PINCS. p-CLOSHANIZ (220.6
JAC (1991), the mixture heated with continuous removal of the N2O.
neutralized with 180 g. NaON in 300 cc. N2O, and the resulting oily layer
distilled gave 205 g. (52.34) 1-(4-chlorophenyl)piperazine (IV). b5
155.7-7.2°. m. 71.5-3.5°. Similarly were prepared the
following I 1-aryl and other aubstituents if present. \* yield, b.p./mm.,
d2O, and nD25 given): p-MecGH4 (V). 25.5, 150.9-2.5°/10, -, -,
m-MecGH4 (VI), 22.9, 154.2-6.2°/10, 1.0383, 1.5744, 0-MecGH4 (VII),
26.5, 136.5-7.5°/10, 1.0261, 1.5600; m-CLCGH4 (VIII), 38.4,
157.2-8.2°/5, 1.1897, 1.5985; o-CLCGH4 (IXI), 32.7,
133.9-4.9°/5, 1.1763, 1.5794; 1-Ph, 2-Me (XI), 30.7,
138.5-40.5\*/10, 1.0410, 1.5723, 1-Ph, 3-Pt (XI), 20.3,
147.8-9.8°/10, 1.0327, 1.5635. IV shaken with a slight excess of
ESCI in the presence of, excess 10% aqueous NaOH and the product recrystd. from
EEOH gave the 4-Bz derivative of IV, m. 128.0-9.5°. Similarly were
prepared the 4-Bz derivative of IV, m. 128.0-9.5°. Similarly were
prepared the 4-Bz derivative of IV, m. 128.0-9.5°. Similarly were
prepared the 4-Bz derivative of IV, m. 128.0-9.5°. Similarly were
prepared the 4-Bz derivative of IV, m. 128.0-9.5°. Similarly were
prepared the 4-Bz derivative of IV, m. 128.0-9.5°. Similarly were
prepared the 4-Bz derivative of IV, m. 158.0-9.5°. Similarly were prepared the
4-Bz derivative of IV, m. 99.5°-10.5°. Similarly were prepared the
4-Bz derivative of IV, m. 99.5°-10.5°

<12/04/2007>

Erich Leese

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(PILE 'HOME' ENTERED AT 15:47:08 ON 18 SEP 2007)

FILE 'REGISTRY' ENTERED AT 15:47:13 ON 18 SEP 2007 STRUCTURE UPLOADED 0 S L1 FULL

FILE 'REGISTRY' ENTERED AT 16:01:11 ON 18 SEP 2007 STRUCTURE UPLOADED 4 S LJ FULL L3 L4

FILE 'CAPLUS' ENTERED AT 16:01:46 ON 18 SEP 2007 1 S L4 FULL

FILE REGISTRY ENTERED AT 16:07:59 ON 18 SEP 2007 STRUCTURE UPLOADED 1347 S L6 FULL

FILE 'CAPLUS' ENTERED AT 16:08:40 ON 18 SEP 2007 201 S L7 FULL 134 S L8 AND PY<2003 Ն8 և9

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as oils and were dissolved in El2O, dried with K2CO3, and the residue from the El2O solution recrystd. from heptane. IV (19.66 g.) in 100 cc. MeOH created during 15 min. with 8.8 g. 111, the mixture refluxed 3 hrs., the MeOH removed in vacuo, the residue cooled, and the resulting solid recrystd. from heptane yielded 16 g. 78-9.5 s. Similarphews). 4-4 (2-b) drowy-3-met by yield 2. 8 g. 78-9.5 s. Similarphews). 4-4 (2-b) drowy-3-met howy-3-met howy-3-met howy-3-met howy-3-met howy-3-met howy-3-met howy-3-met howy-3-met how-3-met how

4318-46-1 CAPLUS 1-Piperazinecarboxanilide, 3-methyl-4-phenylthio- (7CI, 8CI) (CA INDEX NAME)

856839-29-7 CAPLUS Piperazine, 4-acetyl-2-methyl-1-phenyl- (5CI) (CA INDEX NAME)

<12/04/2007>

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